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TILL GEOCHEMISTRY OF THE CENTRAL AND EASTERN PARTS OF THE COLDSTREAM (NTS 21 J/06) MAP AREA, YORK AND CARLETON COUNTIES, NEW BRUNSWICK

A.A. Seaman, P.Geo.

ISSN 1702-2649
ISBN 1-55236-780-0
Price: $5.00

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Recommended citation:

SEAMAN, A.A. 2002. Till geochemistry of the central and eastern parts of the Coldstream (NTS 21 J/06) map area, York and Carleton counties, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals, Policy and Planning Division, Open File 2002-5, 80 p.

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May, 2002

New Nouveau
Brunswick

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SUMMARY

Till samples were collected from 177 sites in the eastern two-thirds of the Coldstream (NTS 21 J/06) map area during a till sampling program carried out in the summers of 1998, 2000 and 2001. Basal till was obtained from 165 of these sites. Supraglacial ablation till was collected at the remaining 12 sites.

The geochemical results show a clear association between As, Bi, Cu, Mo, Pb, Sn, W and Zn and the known Sisson Brook, Nashwaak and Manzer Brook mineral occurrences. Glacial dispersal toward the south to south-southeast is suggested. Several other geochemical anomalies have been noted in the study area. Most significant perhaps are the values of 259 ppm As, 255 ppm Pb and 23.8 ppm Sb obtained for the sample from one basal till site. These As and Sb values are comparable to those obtained for basal till samples previously collected in close proximity to the Lake George mine site in the Canterbury (NTS 21 G/14) map area. The Pb value is higher than any previously obtained for basal till samples from west-central New Brunswick that did not contain obvious galena.

No new significant Au anomalies were identified in the study area. The only site with anomalous Au is the one in the Cloverdale area, in the southwest corner of the study area, which was identified in a previous report.

Several bedrock samples were collected from the study area, for use as aids in identifying the bedrock source of pebbles collected from the till samples. One of these bedrock samples was found to contain mineralization. Geochemical analysis was obtained for part of this sample. The results, included in this report, suggest that the bedrock sample contains elevated values of Ag, As, Au, Bi, Hg, Mo, Pb, S, Sb, Tl and W.

SOMMAIRE

Des échantillons de till ont été prélevés de 177 emplacements dans les deux tiers orientaux du secteur cartographique de Coldstream (SNRC 21 J/06) pendant un programme d'échantillonnage de till réalisé au cours des étés 1998, 2000 et 2001. On a obtenu des échantillons de till de fond de 165 de ces emplacements. Du till d'ablation supraglaciaire a été prélevé dans les 12 autres emplacements.

Les résultats géochimiques révèlent une association évidente entre l'As, le Bi, le Cu, le Mo, le Pb, le Sn, le W, le Zn et les venues minérales reconnues du ruisseau Sisson, de Nashwaak et du ruisseau Manzer, On suppose une dispersion glaciaire en direction sud à sud-sud-est. Plusieurs autres anomalies géochimiques ont été notées dans le secteur d'étude. Les plus déterminantes sont sans doute les valeurs de 259 ppm d'As, de 255 ppm de Pb et de 23,8 ppm de Sb obtenues de l'échantillon d'un emplacement de till de fond. Les valeurs d'As et de Sb sont comparables à celles tirées des échantillons de till de fond prélevés précédemment très près de l'emplacement de la mine du lac George dans le

secteur cartographique de Canterbury (SNRC 21 G/14). La concentration de plomb est supérieure à toutes les valeurs précédemment trouvées dans les échantillons de till de fond du centre-ouest du Nouveau-Brunswick ne renfermant pas de galène en quantité évidente.

Aucune nouvelle anomalie aurifère déterminante n'a été relevée dans le secteur d'étude. Le seul emplacement présentant des valeurs anomales d'Au est celui de la région de Cloverdale dans le coin sud-ouest du secteur d'étude, qui a été signalé dans un rapport antérieur.

On a prélevé plusieurs échantillons du substrat rocheux du secteur d'étude pour les utiliser comme outils dans la détermination de la source sous-jacente des cailloux provenant des échantillons de till. Il a été constaté que l'un des échantillons de substrat rocheux renfermait une minéralisation et on a obtenu une analyse géochimique d'une partie de cet échantillon. Les résultats, détaillés dans le présent rapport, permettent de supposer que l'échantillon de substrat rocheux présente des valeurs élevées d'Ag, d'As, d'Au, de Bi, de Hg, de Mo, de Pb, de S, de Sb, de Tl et de W.

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Till Geochemistry of the Central and Eastern Parts of the Coldstream (NTS 21 J/06) Map Area, York and Carleton Counties, New Brunswick

INTRODUCTION

The Coldstream (NTS 21 J/06) map area lies in west-central New Brunswick, to the northeast of the town of Woodstock (Figure 1). Till sampling in the west half of the map area was begun in 1998 and continued in 2000, with sampling in the vicinity of the Woodstock Fault system, and along the projection of an As-Sb dispersal train previously identified in the adjacent Millville (NTS 21 J/03) map area. The results of this work were reported and discussed by Seaman (2001a, 2001b). Some sampling in the east half of the map area was also carried out in 2000, and sampling in this area was completed during the summer of 2001. In addition, samples were obtained for most of the grid points that remained to be sampled in the poorly accessible east-central part of the west half of the map area.

For this report, the study area comprises the eastern two-thirds of the Coldstream map area. Sixty-seven samples were collected from 62 sites in the study area during 1998 and 2000. A further 121 samples were collected from 115 sites in this area during the summer of 2001, for a total of 188 samples collected from 177 sites (Figure 2). These comprised: 169 samples of basal lodgement till, including four field duplicate samples and an extra sample from each of two sites where two different lodgement tills appeared to be superposed; two samples of basal deformation till (one a field duplicate of the other); one sample of basal meltout till; 14 samples of ablation till; and one sample each of glaciolacustrine and glaciofluvial sediment. Only two grid points (CS-H09 and -K10) in the poorly accessible west-central part of the study area remain to be sampled.

Most of the eastern two-thirds of the Coldstream map area is readily accessible via an extensive network of logging roads. These include a couple of major roads that connect Highway 107, which passes through the northeastern corner of the map area, with Highway 104 to the south of the map area. Only in the west-central part of the study area is the access poor, comprising only a few old logging roads. However, the construction of a pair of new logging roads in the southern part of this poorly accessible area, subsequent to the 2000 field season, significantly improved access to two sites, which were sampled in 2001.

The purpose of this report is to make available for public use as expeditiously as possible the geochemical and site data for the eastern two-thirds of the Coldstream area, with only a brief commentary on the highlights in the data set. Some of the data reported here was previously published in Seaman (2001a). This comprises the data for those sites sampled in 1998 and 2000 in the more readily accessible parts of the eastern third of the west half of the map area. It is repeated in this report to permit ready comparison with the data for the sites in the poorly accessible part of the area that were sampled in 2001. Also included is

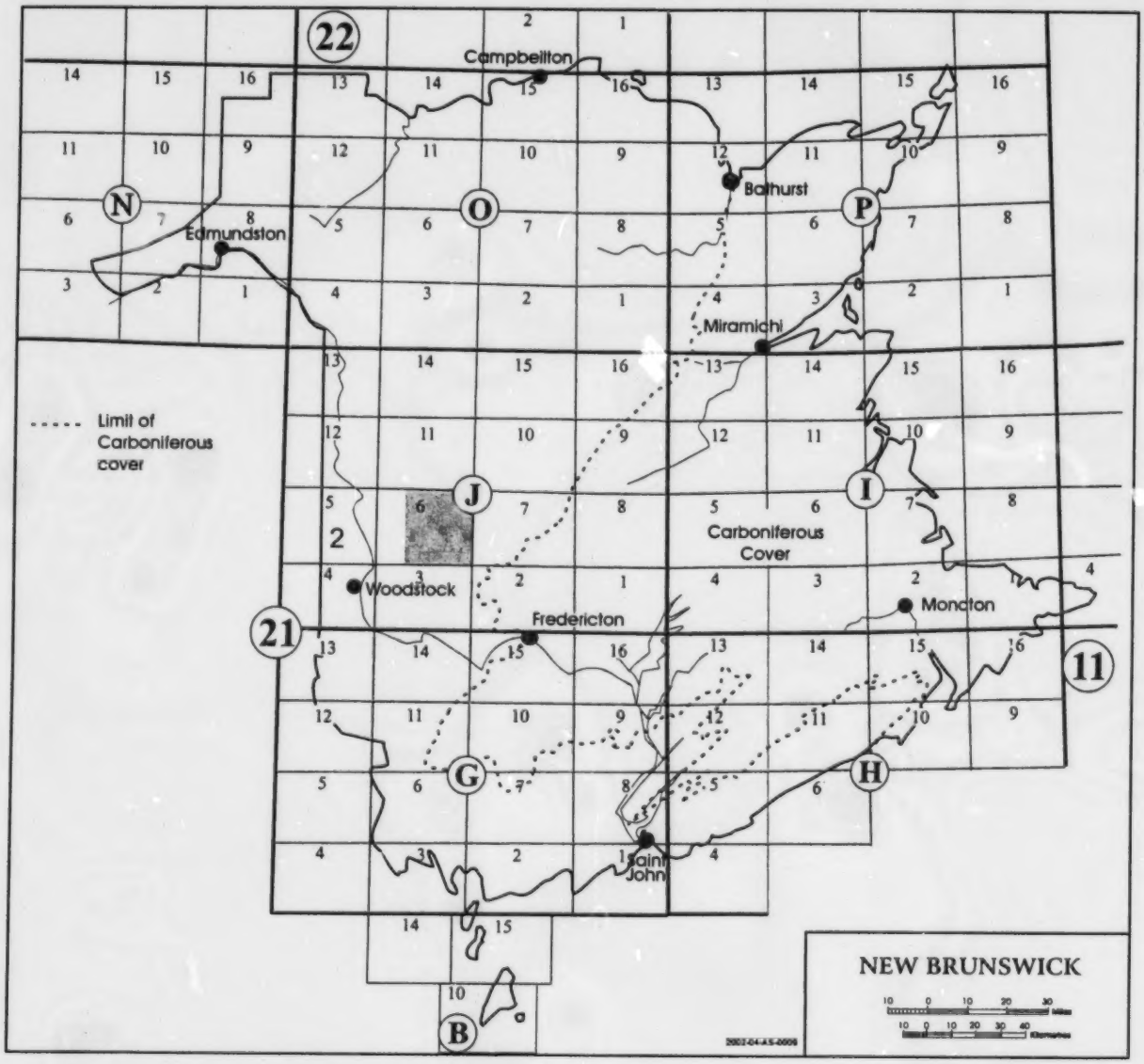

Figure 1. Location of the study area in the eastern two thirds of the Coldstream (NTS 21 J/06W) map area.

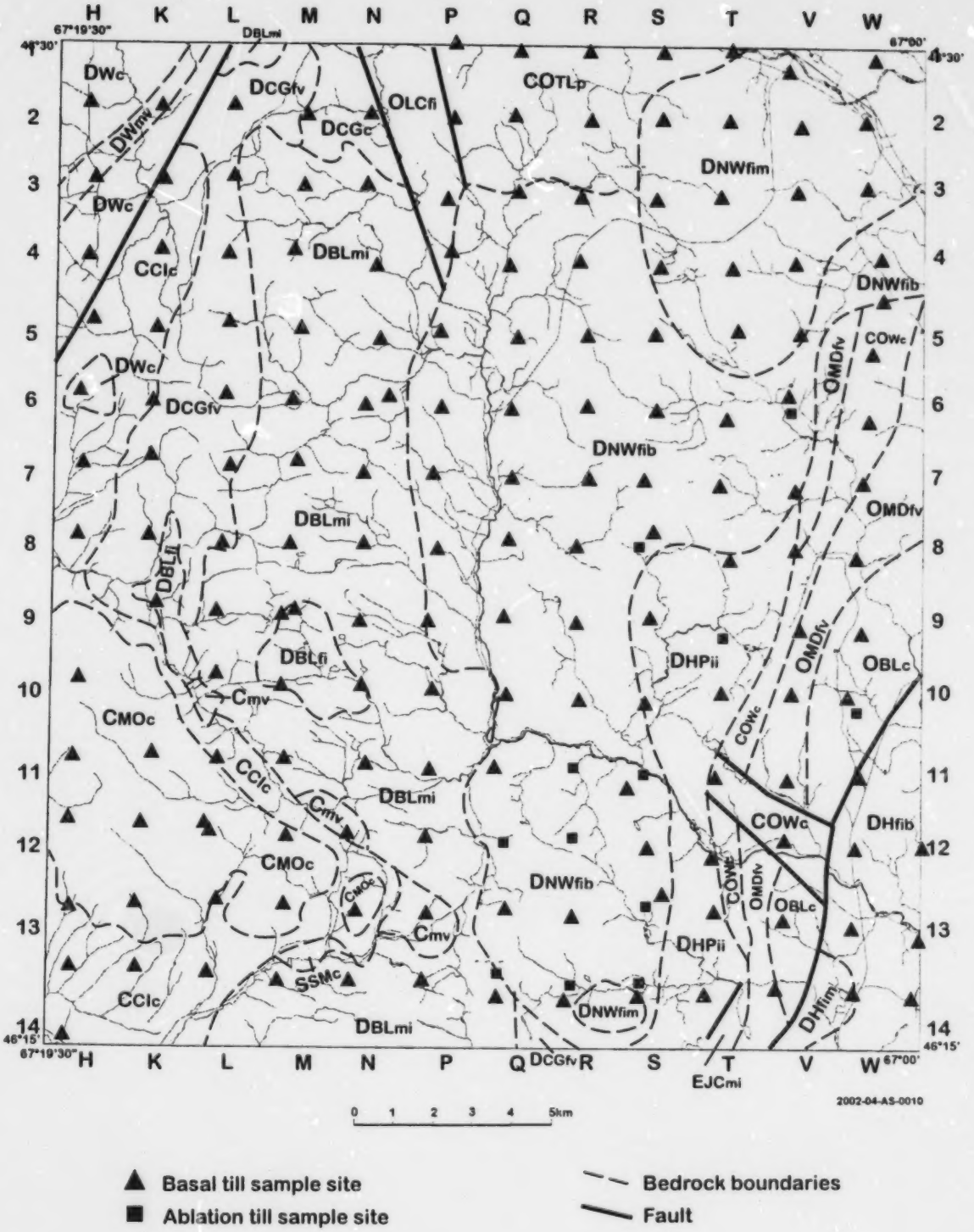

Figure 2. Sample site locations in the eastern two thirds of the Coldstream (NTS 21 J/06) map area, and the bedrock geology of the area (from Fyffe 1982). See Table 7 for bedrock unit designations, descriptions and sources.

geochemical data for a rock sample collected from mineralised bedrock during the course of the till sampling program. However, pebble lithology and grain size data is not available for this report.

Further discussion of the data in this report is planned for the Minerals and Energy Division "Current Research 2001" volume. A final Open File, including digital data files, is planned following completion of all till sampling in the Coldstream map area.

SAMPLING AND ANALYTICAL METHODS

The Sampling Program

The till sampling program in the Coldstream map area continues on from previous programs in the adjacent Millville (NTS 21 J/03) and Woodstock (NTS 21 J/04) map areas, to the south and southwest, respectively (Seaman 1997, 1998, 1999, 2000a, 2000b). The standard 2 km sampling grid was used (one sample / 4 km^2). For this grid system, the target grid points are at the intersections of the even numbered UTM easting lines and the odd numbered UTM northing lines (NAD27) on the appropriate 1:50 000 scale National Topographic System (NTS) map sheet. Grid points and their associated samples were labelled based on their position in the 2 km grid pattern. Columns are identified by letter from west to east (the letters 'I,' 'J,' 'O' and 'U' are omitted because of potential confusion with the numbers '0' and '1' and the letters 'T' and 'V'). Rows are identified by number from north to south. Because of the orientation of the grid on the Coldstream (NTS 21 J/06) map sheet, row 1 is absent from the columns to the west of column P and row 15 is only present to the west of column K. Also, only rows 12 to 14 of column X are present (Figure 2). For reference, grid point CS-H02 [UTM easting 630000, northing 5149000, based on North American Datum 1927 (NAD27)] is in the northwest corner of the present study area, and grid point CS-X14 (UTM coordinates 654000E, 5125000N) is in the southeast corner. Where two sites were sampled in the vicinity of a single grid point, the first site was identified with the alphanumeric grid point designation followed by the suffix "a" (e.g., CS-N06a), and the second with the suffix "b". At sites where samples were collected from several levels in a stratigraphic sequence, the upper sample was identified with the suffix "-1", the next lower with the suffix "-2", and so on.

Basal till comprises the target sample medium for the sampling program. This is usually lodgement till, but deformation till or subglacial (basal) meltout till are also acceptable for sampling. Samples of basal till were collected for all but 6 grid points in the eastern two-thirds of the Coldstream map area. As noted above, grid points CS-H09 and -K10 remain to be sampled. Also, grid points CS-Q12, -R11, -R12 and -T09 lie in extensive areas of supraglacial ablation till. No basal till could be found within reasonable proximity of these grid points, and therefore ablation till was sampled as a proxy for basal till. Ablation till was also extensive around grid points CS-Q14, -R14, -S08, -S11, -S13, -S14, -V06 and -W10. However, basal till was found within 750 m of the grid point for these areas. To permit a comparison of the geochemical characteristics of the two different types of till, both ablation till sites (e.g., CS-Q14a) and basal till sites (e.g., CS-Q14b) were sampled for

these 8 grid points. For the same reason, samples of both ablation and basal till were collected at sites CS-V08 and -V11, where the ablation till stratigraphically overlies the basal till. Two till samples were also collected at each of sites CS-N08 and -N11, where it appeared that two different basal tills might be present in stratigraphic superposition. Also, two sites were sampled for each of grid points CS-M09 and -N06. In these two cases the second sample site was a roadcut section in which the till was visibly different from that sampled at the first site. These extra samples were collected for the purpose of determining if the visible differences between the till were reflected in the geochemistry. An additional site, identified as CS-W04.5, was sampled in a roadcut section approximately midway between grid points CS-W04 and -W05. The sites sampled for the latter two grid points were displaced some distance to the northeast and south, respectively, of the actual grid point, so the sample from site CS-W04.5 serves to fill the greater than normal gap between adjacent samples. Finally, samples of glaciolacustrine and glaciofluvial sediment overlying the basal till at site CS-K09 were collected to see how the geochemistry of these materials compares to that of the underlying basal till.

Field Procedures

Access is so good in the area of Crown Lands comprising much of the eastern two-thirds of the study area that about 70% of the samples in this area were collected from roadcut sections. In the western third of the study area about 40% of the samples were collected from roadcut sections. The remaining sample sites in the study area were accessed by pace and compass traverse from the nearest available road access point. The exact locations of the sites sampled in 2000 and 2001 were determined using a Garmin 12 GPS unit.

Sampling procedure involved the excavation by shovel and rock pick of sample pits, typically extending about 0.25 m into the C-horizon unless bedrock or extreme compaction were encountered as lesser depths. Sample pits in roadcut sections were excavated at least 0.2 m into the face of the cut to avoid possible contamination from the road-building equipment. Sample pits were cleaned out and sampled by hand, using a stainless steel hunting knife to loosen the material. Members of the sampling crew refrained from wearing gold jewellery for the duration of the field season so as to prevent contamination of the samples with Au. Approximately 5 kg of material was collected for each C-horizon sample for geochemical and grain-size analysis. In addition, a sample of pebbles (nominally 100, if possible) was collected from the C-horizon, for use as an aid in determining till transport direction. Samples of bedrock were collected from several sites to serve as guides in the identification of pebbles of local origin. One of these bedrock samples (CS-RK-01-08) exhibited visible mineralization, and was therefore submitted for geochemical analysis.

Sample Preparation

Sample preparation was carried out in the Geochemical Laboratory of the Department of Natural Resources and Energy (DNRE) in Fredericton. Part of the material from each sample bag was removed for analysis, and the remainder was archived. The removed part of the sample was oven-dried and sieved, using stainless steel sieves, to separate two

subsamples. The first was a silt-plus-clay fraction (<0.063 mm) subsample. This was split, with part being submitted for geochemical analysis and the remainder being retained for archival purposes. The second subsample, comprising sand and finer material, was for grain size analysis (to be performed at a later date).

The bedrock sample from site CS-RK-01-08 was shipped to Acme Analytical Laboratories Limited of Vancouver, where it was crushed and pulverised using mild steel plates

Analytical Procedures: Till Samples

The sample splits for geochemical analysis were submitted to Activation Laboratories Limited (Actlabs) of Ancaster, Ontario. Analyses conducted in 1999 used their "Au+48" package (code 1H), with add on Hg-CV analysis (Code 1G) and analysis of Sn by fusion-ICP (code 5D). Analyses conducted in 2000 and 2001 used the "Au+53" package (Code 1H2), with add-on Hg-CV analysis. The methods of analysis used and the elements determined are summarised below. Detection limits for those elements reported in the data file (Appendix 2) are summarised in Table 1.

(1) *Instrumental Neutron Activation Analysis (INAA)*

INAA analyses were obtained for Au plus 34 elements (Ag, As, Ba, Br, Ca, Ce, Co, Cr, Cs, Eu, Fe, Hf, Hg, Ir, La, Lu, Mo, Na, Nd, Ni, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, U, W, Yb and Zn). Values for Ag, Ca, Hg, Ir, Se, Sn and Sr are not reported in the data file. All samples were below the INAA detection limit for Ir (5 ppb) and Sn (0.01%), and most were also below the detection limits for Ag (5 ppm), Ca (1%), Hg (1 ppm), Se (3 ppm) and Sr (0.05%). Values for these elements, except for Ir, were obtained using other methods, noted below, which have lower detection limits.

(2) *Inductively-coupled Plasma Emission Spectrometry (ICP)*

ICP analyses were obtained for 19 elements (Ag, Al, Be, Ca, Cd, Cu, K, Mg, Mn, Mo, Ni, P, Pb, S, Sr, Ti, V, Y and Zn). Al values may not be total, as Al may not be totally digested in oxidised material. Y values may not be total either, due to its possible occurrence in highly resistant minerals.

(3) *Inductively-coupled Plasma – Mass Spectrometry (ICP-MS)*

ICP-MS analyses were obtained for 7 elements (Bi, Ge, In, Se, Sn, Te and Tl). Detectable In was reported for only one sample (CS-W08, 0.2 ppm, which is at the ICP-MS detection limit). Therefore values for this element are not reported in the data file. The values obtained for Sn and Tl may not be total.

(4) *Cold Vapour Atomic Absorption Spectrometry (CV-AAS)*

CV-AAS analysis was used to determine Hg.

Actlabs reported the results of their own analytical duplicates for the ICP, ICP-MS and CV-AAS analyses. The average values for these duplicate analyses are recorded in the data file (Appendix 2).

Analytical Procedures and Results: Bedrock Sample (CS-RK-01-08; URN 1419)

The bedrock sample submitted to Acme Analytical Laboratories Limited (Acme) was analysed using Ultratrace ICP-MS (their Group 1F-MS) following crushing and pulverising. A split of the sample weighing 15 g was analysed following aqua regia digestion. Results were obtained for 37 elements (Ag, Al*, As, Au, B*, Ba*, Bi, Ca*, Cd, Co, Cr*, Cu, Fe*, Hg, Ga, K*, La*, Mg*, Mn*, Mo, Na*, Ni*, P*, Pb, S*, Sb, Sc*, Se, Sr*, Te, Th*, Ti*, Tl, U*, V*, W*, and Zn). Analysis was partial for a number of these elements (denoted with an asterisk above). Detection limits are summarised in Table 1.

The geochemical results for bedrock sample CS-RK-01-08 are summarised in Table 2. Because the results of the Acme procedures differ from those obtained by the generally near total procedures used by Actlabs, the results for the bedrock sample are not directly comparable to those for the tills in the area. To facilitate comparison, a conversion factor was calculated for each element to permit estimation of near total values for the bedrock sample. The conversion factor was derived from the results obtained by both labs for several standard samples. The conversion factors and the estimated near total values are also presented in Table 2. For comparison purposes, Table 2 also lists the average values and standard deviations obtained for basal till samples collected from west-central New Brunswick since 1990. Comparison of the bedrock sample values with the average basal till values suggests that the bedrock sample contains elevated Ag, As, Au, Bi, Hg, Mo, Pb, S, Sb, Tl and W values. This occurrence has been assigned Unique Record Number (URN) 1419.

Reproducibility

(1) Analysis of Submitted Standard Samples

One standard sample was among the samples from the current study area that were submitted to Actlabs in 1999. This was a split of Geological Survey of Canada (GSC) standard LKSD-4. Two standard samples were among the samples from the study area that were analysed in 2001. These were splits of GSC standards TILL-3 and TILL-4. Six standard samples accompanied the samples submitted for analysis in 2002. These comprised: three splits from GSC standard LKSD-4; one split from GSC standard TILL-2;and two splits from GSC standard TILL-4. The results of the analyses of these standards and the expected values are summarised in Tables 3-1 to 3-3. The false sample numbers used to identify the standard samples are listed in the tables to indicate the position of these samples in the sequence of analyses. For standard LKSD-4, the expected value quoted is the mean of the indicated number of previous Actlabs analyses of this standard. For TILL-2, TILL-3 and TILL-4 the expected value is that reported by Lynch (1996). Reproducibility was good for the four GSC standards, with 53 to 66% of the

values returned lying within 1 standard deviation of the expected value, and 76 to 92% lying within 2 standard deviations. [Note: in Seaman (2001a) TILL-3 was incorrectly identified as having only fair reproducibility; it should have been TILL-1 that was so identified]. A point of interest is that standards TILL-2 and TILL-4 were collected from the vicinity of the Sisson Brook mineral occurrences (Lynch 1996) in the eastern part of the Coldstream map area. [The Mo values for TILL-4 were augmented by the addition of molybdendenite-bearing soil from a site near Hull, Québec (Lynch 1996)].

In addition to the GSC standards, three splits each of two new standards - being developed by NBDNRE to supplement the GSC standards - were included with the 2002 sample batch. The analysis of these standards with the 2002 samples is for the purposes of confirming the consistency of the material, and building up the number of analyses so that statistically significant mean and standard deviation values can be assigned for the various elements.

The first new standard, identified as NB-CS1, comprises the archived unprocessed material for sample CS-B10-1. This sample was collected in 2000 as part of a field duplicate pair separated by a vertical distance of approximately 1.1 m in a large road cut (Seaman 2001a). For most elements, the values obtained for the two samples (CS-B10-1 and –B10-2) were closely comparable. This suggests that large quantities of geochemically consistent material could be collected from this site in the future. In addition to the two previous Actlabs analyses, this material has been analysed a further three times by Actlabs, eight times by Acme (using ICP-MS only), and six times by Becquerel Laboratories (using INAA only). The values obtained for the three splits submitted with the Coldstream samples are listed in Table 3-4. In addition, Table 3-4 includes the average and standard deviation values obtained from all values reported by each laboratory. For most elements, the one standard deviation confidence interval around the Actlabs average value overlaps the corresponding one standard deviation confidence interval around the Becquerel or Acme average value (exclusive of most of the elements for which partial extraction is expected using the Acme methodology). These preliminary results suggest that this material has potential for use as a standard.

The second new standard, identified as NB-01, comprises surplus fine material left over after the processing of till samples from southern, west-central and northern New Brunswick, mixed with surplus powdered rock samples (some mineralised). In addition to the analyses of three splits obtained with the Coldstream sample package, a further three splits have been analysed by Actlabs, and five splits each by both Becquerel Laboratories (INAA) and Acme (ICP-MS). The analytical results obtained for this standard are listed in Table 3-5, along with the mean and standard deviation values obtained from the values reported by the three laboratories. The correlation of values between laboratories is not as good as for NB-CS1. However, for most elements there is overlap at the two standard deviation confidence interval around the mean, which is certainly acceptable. NB-01 could prove to be a particularly useful standard, since the values for Ag, As, Au, Bi, Cd, Cu, In, Pb, Sb, Te and Zn are significantly higher than those for any of the GSC LKSD, STSD or TILL standards.

(2) Analysis of Laboratory Standards

The analytical results received from Actlabs in 2001 and 2002 included the results of their analyses of a number of additional standards. For the INAA analyses results were reported for their own internal standards. Five analyses of the standard DMMAS-15 were reported in 2002. The results of these analyses are summarised in Table 4-1. Ten analyses of the standard DMMAS-18 were reported in 2001, the results of which are summarised in Table 4-2. These results show excellent agreement with the accepted values reported by Actlabs. Only one result (for Yb in DMMAS-15-630) differs from the accepted value by more than two uncertainty intervals.

United States Geological Survey (USGS) standards GXR-1, GXR-2, GXR-4 and GXR-6 were analysed by ICP and ICP-MS in both years. The first three of these standards were also analysed for Hg by CV-AAS. The results of these analyses are summarised in Table 4-3. Four additional USGS standards – DNC-1, G-2, SCO-1 and SDC-1 – were analysed by ICP only. The results of these analyses are summarised in Table 4-4. Tables 4-3 and 4-4 also record the certificate data for these standards, as reported by Actlabs (no confidence interval was reported for the values). As expected, due to the potential for partial extraction in the Actlabs methodology, values for Al and Sn, and to a lesser extent Y, are generally significantly lower than the certificate values. For most of the remaining elements the Actlabs values generally lie within 30% of the certificate value. Exceptions are: Mo, which gives excellent results in standards with a high Mo content, but higher than expected values in standards with a low Mo content; Be and Cd, the values for which tend to be low and somewhat erratic; and P, which gives excellent reproducibility from one year to the next, but for which the values may be either higher or lower than the certificate values.

In addition to standards GXR-1, GXR-2 and GXR-4, Hg values were reported for a method reagent blank and for CANMET soil standard SO-2. The reported values for the blank were <5 ppb for both years. The results for standard SO-2 (expected value of 82 ppb with a 95% confidence interval of ± 9 ppb) were reported as 81 ppb in 2001 and 73 and 74 ppb in 2002.

(3) Analysis of Duplicate Samples

Two blind analytical duplicates of a sample from the study area were included with the samples submitted to Actlabs in 2001. Five blind analytical duplicates were included with the samples submitted in 2002. These duplicates comprised duplicate splits obtained from the sample after preparation in the NBDNRE lab. In addition, splits of archived material for four of the samples analysed in 1999 were submitted for reanalysis in 2001, and splits of similar material for eight of the samples analysed in 2001 were submitted for reanalysis in 2002. The average percent deviation from the mean value was calculated for each element (Table 5), as a measure of the amount of variability between the pairs of duplicate values. It is less than 10% for most elements. The exceptions are primarily elements influenced by the "nugget effect," such as Au and W, those that occur predominantly at levels near the detection limit (e.g., Ag, Ta, etc), and those for which the analytical method

is not the optimum for the elemental concentrations generally exhibited by the samples (e.g., Ni and Zn by INAA).

As noted above, the results returned by Actlabs for the ICP, ICP-MS and CV-AAS analyses included their own analytical duplicates. The average percent deviation from the mean was also calculated for each of the elements analysed by these methods. These results are also reported in Table 5.

In addition, five field duplicate samples were collected in the study area. At site CS-K05, the field duplicate samples were collected in 2000 from two test pits approximately 13 m apart (Seaman 2001a). In 2001, field duplicate samples were collected for sites CS-N04, -N06b, -S02 and -V01 (submitted to the lab as CS-N04-2, -X09, -X11 and -X10, respectively). The samples for CS-N04, -S02 and -V01 were collected from the same test pits as the original samples. The field duplicate sample for site CS-N06b was collected from a separate test pit about 8 m to the north of the original test pit. As expected, the average percent deviation from the mean for each element for the field duplicates (Table 5) is generally somewhat greater than the equivalent value for the analytical duplicates.

(4) Variation in Element Values on an Annual Basis

The analytical data presented in this report was obtained from three batches of samples that were analysed on different years (1999, 2001 and 2002). This presents the opportunity to examine the variation in elemental values from one year to the next.

A total of 24 pairs of blind duplicate analyses were performed on samples that were in the same annual batch (including duplicate analyses of standard samples submitted by NBDNRE). The 1999 sample batch included blind duplicates for samples collected from the Millville (NTS 21 J/03) and Salisbury (NTS 21 I/03) map areas in addition to those for the Coldstream map area. The average percent deviation from the mean and its associated standard deviation were calculated for each element, to determine the expected deviation within a single batch of samples. These values are summarised in Tables 6-1 and 6-2.

In 2001 there were eight pairs of duplicate analyses obtained as a result of reanalysis of samples or standards originally analysed in 1999. Similarly, in 2002 there were 21 pairs of duplicate analyses arising from reanalysis of samples or standards analysed in 2001, and 5 pairs of duplicate analyses arising from reanalysis of standards analysed in 1999. The average percent deviation from one year to the next was calculated, and is tabulated in Tables 6-1 and 6-2. [Note: The tabulated values are not the percent increase (or decrease) from one year to the next. Such values would not be symmetrical about zero. For example, for GSC standard LKSD-4, values for Mo by INAA of <1 ppm (0.5 ppm for calculation purposes) were obtained in 1999 and for two of the splits in 2002. However, one of the splits from 2001 returned a value of 25 ppm. Even though the magnitude of the variation from 1999 to 2001 and from 2001 to 2002 is the same, though of opposite sense, the increase from 1999 to 2001 is 4900%, while the decrease from 2001 to 2002 is only 98%. In contrast, the percent deviation from the mean from 1999 to 2001 is 96.1%, while from 2001 to 2000 it is -96.1%]. For most elements, the percent deviation from one year to

the next appears to be insignificant, lying between zero and one standard deviation above the average deviation expected of a single batch. Only Ag exhibits a variation more than three standard deviations above the average within-batch deviation. Ag values for 2002 analyses are significantly greater than those obtained for the same samples in 1999 and 2001. However, this seems to apply only to values at less than anomalous levels. The high Ag values reported for USGS standards GXR-1 and GXR-2 are virtually identical from 2001 to 2002 and are consistent with the certificate value (see: Table 4-3). The higher Ag values reported in 2002 may be a result of improved detection capability at low levels. However, irrespective of the reason for the increase, the 2002 Ag data is not directly comparable to that for 1999 or 2001. It appears that the 2002 Ag values need to be reduced by about two-thirds to be comparable with those for the earlier years.

SITE AND GEOCHEMICAL DATA

The available site data (location, site characteristics, and field data) are presented in Appendix 1. The legend for this appendix is presented in Table 7. Pebble lithology and grain size analyses have not been completed, and therefore such data is not included in this data file.

The results of the geochemical analyses are presented in Appendix 2. The corresponding legend is presented in Table 8.

ELEMENT DISTRIBUTION PLOTS

A number of element distribution plots are presented in Appendix 3. These plots are for As, Au, Be, Bi, Cu, Hg, Mo (by both ICP and INAA), Pb, S, Sb, Sn, W and Zn in basal till only. The magnitude of the element concentration at each site is characterised by the width of the dot. The values for the minimum and maximum dot sizes are indicated at the base of each plot.

The element distribution plots also indicate the nine known mineral occurrences from the area, including the site of the mineralized bedrock reported above (which has been entered into the Mineral Occurrence Files as URN 1419). These occurrences and their reported elements are as follows:

URN 0188	Brummagen Brook Bog	Fe, Mn, P;
URN 0192	MacIntosh Brook	Cu;
URN 0207	Sisson Brook – Zones 1 & 2	Ag, As, Bi, Cu, F, Ge, Mo, Pb, Sb, W, Zn;
URN 0208	Sisson Brook – Zone 3	As, Cu, F, Fe, Mo, W, Zn;
URN 0209	Nashwaak	Ag, As, Au, Ba, Bi, Cd, Cu, Mo, Pb, Sb, Zn;
URN 0210	Becaguimec Lake	Cu, Ni;
URN 0875	Pokiok Brook North	Cu;
URN 0895	Pokiok Brook South	Cu;
URN 1281	Manzer Brook	As, Ba, Sb; and
URN 1419	Deersdale	Ag, As, Au, Bi, Hg, Pb, S, Sb, Tl, W.

PRELIMINARY COMMENTS

1) The only Au anomaly in the study area (i.e., Au values ≥10 ppb) is that previously reported for site CS-H14 in the Cloverdale area (46 and 40 ppb, on duplicate samples; Seaman 2001a, 2001b), in the southwestern corner of the study area. However, there are over a dozen sites scattered through the study area at which threshold anomalous Au values (6 to 9 ppb) were obtained.

2) The previously reported Pb and Zn dispersal train from the Foreston and Salmon Brook mineral occurrences in the Juniper (NTS 21 J/11) map area to the north (Seaman 2001b) does not appear to extend further into the Coldstream map area (i.e., beyond site CS-K05). The elevated values for As, Au and Sb at site CS-K06 most likely represent dispersal of material from the nearby Carlisle Formation, which has been previously shown to be associated with elevated values of these elements (Seaman 2001a, 2001b).

3) Adjacent to the above dispersal train, at site CS-L03, the basal till is extremely anomalous in As, Pb and Sb (259 ppm, 255 ppm and 23.8 ppm, respectively). Threshold anomalous Au, Mo (by ICP) and Zn values were also obtained for the sample from this site. The As and Sb values are comparable to those obtained from basal till samples in the vicinity of the Lake George mine site [in the Canterbury (NTS 21 G/14) map area (Balzer and Seaman 1996)]. With one exception, the Pb value is higher than any obtained in the previous 11 years of till sampling in west-central New Brunswick. The exception is a deformation till containing galena-bearing quartz cobbles and boulders in the Dead Creek area [Fosterville (NTS 21 G/13) map area (Seaman 1996)]. Follow-up sampling around site CS-L03 is planned for 2002, to confirm the anomaly and to attempt to determine its extent and source.

4) Cu values are above average to threshold anomalous at several sites to the south-southeast of the MacIntosh Brook (URN 0192) and Pokiok Brook (URNs 0875 and 0895) mineral occurrences. An above average Cu value was obtained for the sample from site CS-P14, to the southeast of the Becaguimec Lake Cu-Ni mineral occurrence (URN 0210). These slightly elevated values may represent dispersal from these occurrences.

5) There is no obvious dispersal train associated with the mineralized bedrock at site CS-RK-01-08 (URN 1419) in the northeastern corner of the study area. This may be due to the thickness of the till overlying the bedrock in the area. However, threshold anomalous Au at site CS-V04 and detectable Au at site CS-V05, both to the south of the bedrock occurrence, may reflect dispersal from this occurrence. Follow-up sampling is planned for 2002, to determine if the till overlying and in close proximity to the occurrence reflects the mineralization.

6) There are a cluster of sites to the south of Nashwaak Lake (sites CS-R04, -R05, -S04, -S06, -T05 and -T06) that are threshold anomalous in Sn (5 to 7 ppm) and threshold anomalous to anomalous in one or more of Au, As, Be, Bi, Cu or Mo.

7) The basal till from site CS-S02, to the northeast of Nashwaak Lake, is anomalous in Be, Bi and Sn. This is a field duplicate site, and the values obtained for these elements on the two samples are closely comparable (6 and 7 ppm Be; 3.7 and 3.4 ppm Bi; and 8 and 8 ppm Sn).

8) There is a clear association between the Sisson Brook (URNs 0207 and 0208), Nashwaak (URN 0209) and Manzer Brook (URN 1281) mineral occurrences and elevated values of As, Bi, Cu, Mo, Pb, Sn, W or Zn in basal till at sites CS-V08, -V09, -V10, -W08 and -W10b. Several of the plots for these elements suggest that glacial dispersal was toward the south to south-southeast. Of particular interest in the plots is the presence of elevated As, Au, Cu, and Pb values at site CS-W7 and Cu and Sb values at site CS-W6. This suggests that a belt of mineralized bedrock may extend to the north-northeast of the reported mineral occurrences.

ACKNOWLEDGEMENTS

Field assistance during the 1998 field sampling program was provided by Trevor MacLeod. Vernon Banks assisted in the field in 2000 and 2001. Rex Boldon and Serge Allard prepared the samples for geochemical analysis.

The figures for this report were prepared by Rhonda Doiron. Critical review was provided by A.G. (Toon) Pronk, P.Geo. This report was approved for publication by L.R. Fyffe, Manager of Geological Surveys South.

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Table 1. Summary of Analytical Detection Levels and Methods

Element		Actlabs		Acme (ICP-MS)
		Detection Level	Method	Detection Level
Ag	Silver	0.3 ppm	ICP	2 ppb
Al	Aluminum	0.01 %*	ICP	0.01 %*
As	Arsenic	0.5 ppm	INAA	0.1 ppm
Au	Gold	2 ppb	INAA	0.2 ppb
B	Boron	n/a	n/a	1 ppm*
Ba	Barium	50 ppm	INAA	0.5 ppm*
Be	Beryllium	1 ppm	ICP	n/a
Bi	Bismuth	0.1 ppm	ICP-MS	0.02 ppm
Br	Bromine	0.5 ppm	INAA	n/a
Ca	Calcium	0.01 %	ICP	0.01 %*
Cd	Cadmium	0.3 ppm	ICP	0.01 ppm
Ce	Cerium	3 ppm	INAA	n/a
Co	Cobalt	1 ppm	INAA	0.1 ppm
Cr	Chromium	2 ppm	INAA	0.5 ppm*
Cs	Cesium	1 ppm	INAA	n/a
Cu	Copper	1 ppm	ICP	0.01 ppm
Eu	Europium	0.2 ppm	INAA	n/a
Fe	Iron	0.01 %	INAA	0.01 %*
Ga	Gallium	n/a	n/a	0.1 ppm
Ge	Germanium	0.1 ppm	ICP-MS	n/a
Hf	Hafnium	1 ppm	INAA	n/a
Hg	Mercury	5 ppb	CV-AAS	5 ppb
K	Potassium	0.01 %	ICP	0.01 %*
La	Lanthanum	0.5 ppm	INAA	0.5 ppm*
Lu	Lutetium	0.05 ppm	INAA	n/a
Mg	Magnesium	0.01 %	ICP	0.01 %*
Mn	Manganese	1 ppm	ICP	1 ppm*
Mo	Molybdenum	1 ppm	ICP	0.01 ppm
Mo	Molybdenum	1 ppm	INAA	n/a
Na	Sodium	0.01 %	INAA	0.001 %*
Nd	Neodymium	5 ppm	INAA	n/a
Ni	Nickel	1 ppm	ICP	0.1 ppm*
Ni	Nickel	20 ppm	INAA	n/a
P	Phosphorus	0.001 %	ICP	0.001 %*
Pb	Lead	3 ppm	ICP	0.01 ppm
Rb	Rubidium	15 ppm	INAA	n/a
S	Sulphur	0.001 %	ICP	0.02 %*
Sb	Antimony	0.1 ppm	INAA	0.02 ppm
Sc	Scandium	0.1 ppm	INAA	0.1 ppm*
Se	Selenium	0.1 ppm	ICP-MS	0.1 ppm
Sm	Samarium	0.1 ppm	INAA	n/a
Sn	Tin	1 ppm*	ICP-MS	n/a
Sr	Strontium	1 ppm	ICP	0.5 ppm*
Ta	Tantalum	0.5 ppm	INAA	n/a
Tb	Terbium	0.5 ppm	INAA	n/a
Te	Tellurium	0.1 ppm	ICP-MS	0.02 ppm
Th	Thorium	0.2 ppm	INAA	0.1 ppm*
Ti	Titanium	0.01 %	ICP	0.001 %*
Tl	Thallium	0.1 ppm*	ICP-MS	0.02 ppm
U	Uranium	0.5 ppm	INAA	0.1 ppm*
V	Vanadium	2 ppm	ICP	2 ppm*
W	Tungsten	1 ppm	INAA	0.1 ppm*
Y	Yttrium	1 ppm*	ICP	n/a
Yb	Ytterbium	0.2 ppm	INAA	n/a
Zn	Zinc	1 ppm	ICP	0.1 ppm
Zn	Zinc	50 ppm	INAA	n/a

* analysis is partial for these elements

Table 2. Geochemical Analysis of Bedrock Sample CS-RK-01-08 [UTM ^{6}49660 ^{51}46220 (NAD27)] (URN 1419), and a Comparison of its Values with the Average Values for Basal Till in West-Central New Brunswick.

Element	CS-RK-01-08 Acme Labs values	Conversion Factor*	Estimated near total values	Near Total Values for Basal Till in West-central New Brunswick		
				Average	Std.Dev.	n ‡
Ag (ppm)	5.318	1.35	7.2	<0.3	n/a	808
Al (%)	0.29	2.78	0.81	7.305	1.456	547
As (ppm)	343	1.22	418	15.9	15.2	1251
Au (ppb)	14.4	1.57	23	2.3	3.6	1251
B (ppm)	1	n/a	n/a	n/a	n/a	n/a
Ba (ppm)	148.3	4.51	669	430.6	93.3	1251
Bi (ppm)	0.58	0.93	0.54	0.17	0.09	204
Ca (%)	0.02	3.17	0.06	0.408	0.323	780
Cd (ppm)	<0.01	1.34	<0.3	<0.3	n/a	696
Co (ppm)	0.4	1.15	<1	14.4	4.8	1251
Cr (ppm)	13.6	1.91	26	99.5	21.6	1251
Cu (ppm)	4.8	0.95	5	26.4	18.0	808
Fe (%)	0.97	1.33	1.29	3.811	0.803	1251
Ga (ppm)	1.1	n/a	n/a	n/a	n/a	n/a
Hg (ppb)	435	1.00	435	41.8	32.5	1181
K (%)	0.19	8.90	1.69	1.965	0.419	547
La (ppm)	15.2	1.44	21.9	44.52	10.03	1251
Mg (%)	0.02	1.50	0.03	1.147	0.257	547
Mn (ppm)	31	1.09	34	845.7	522.1	808
Mo (ppm)	25.4	1.09	28	1.1	0.7	513
Na (%)	0.008	70.04	0.56	1.314	0.293	1251
Ni (ppm)	3.3	1.03	3	48.3	17.1	808
P (%)	0.008	1.08	0.009	0.0584	0.0286	547
Pb (ppm)	46.15	1.15	53	18.4	13.5	808
S (%)	0.22	1.07	0.24	0.013	0.009	264
Sb (ppm)	11.38	1.62	18.4	1.34	3.13	1251
Sc (ppm)	0.2	3.34	0.7	13.98	2.87	1251
Se (ppm)	0.5	1.33	0.7	1.17	0.66	496
Sr (ppm)	7.2	6.20	45	79.9	22.0	547
Te (ppm)	<0.02	2.50	<0.1	0.15	0.09	204
Th (ppm)	5.3	2.29	12.1	13.83	5.13	1251
Ti (%)	0.001	5.96	<0.01	0.461	0.092	547
Tl (ppm)	2.21	2.82	6.2	0.30	0.29	204
U (ppm)	3.2	2.01	6.4	3.54	2.76	1251
V (ppm)	3	1.77	5	100.4	17.6	547
W (ppm)	3.1	2.03	6	1.0	1.4	1251
Zn (ppm)	5.3	1.09	6	67.3	34.3	808

* - The Acme Analytical Laboratories Ltd. values for the rock sample are based on a technique that obtains only a partial extraction for many elements. In contrast, the Activation Laboratories Ltd. (ACTLABS) values obtained for the till samples are near total values. To permit side-by-side comparison of the Acme data with the ACTLABS data, a conversion factor was required. The conversion factor was obtained as follows: 1) for each of 6 standard samples that have been analysed by both labs, the average value for each element obtained by ACTLABS was divided by the average value obtained by Acme; 2) for each standard sample, the resulting value for each element was weighted by multiplying it by the number of analyses performed on that standard by the lab that had conducted the fewest analyses of it (from 1 to 18); and 3) the resulting 6 weighted values for each element were summed, and then divided by the sum of the number of analyses. The conversion factor for each element is multiplied by the Acme value to obtain an estimated near total value for the element.

‡ - Number of basal till samples analysed by ACTLABS using CV-AAS, ICP, ICP-MS or INAA.

Table 3-1. Analyses of Standards: LKSD-4

Element †	LKSD-4					
	CS-H9 (2002)	CS-L16 (1999)	CS-Q11 (2002)	CS-V14 (2002)	Expected Value ± 1 σ	n ‡
Ag (ppm) @	0.4	<0.4	0.5	0.5	<0.3	25
Al (%) @	2.63	2.94	2.86	2.80	2.809 ± 0.227	15
As (ppm) #	20.9	17.2	17.9	17.9	16.04 ± 2.16	49
Au (ppb) #	<2	5	<2	<2	2.7 ± 2.8	49
Ba (ppm) #	450	450	440	500	352 ± 87	49
Be (ppm) @	<1	<2	<1	<1	1.0 ± 0.3	15
Bi (ppm) $	0.7	n/a	0.6	0.7	0.53 ± 0.09	23
Br (ppm) #	63.8	67.3	43.7	51.4	51.2 ± 6.1	49
Ca (%) @	1.23	1.27	1.30	1.28	1.409 ± 0.131	15
Cd (ppm) @	0.9	1.9	0.9	0.7	1.91 ± 0.28	25
Ce (ppm) #	52	64	47	50	52.2 ± 7.5	49
Co (ppm) #	15	12	11	12	10.9 ± 1.8	49
Cr (ppm) #	28	36	25	34	35.0 ± 9.8	49
Cs (ppm) #	3	2	<1	2	1.3 ± 0.7	49
Cu (ppm) @	33	30	27	28	29.2 ± 2.9	25
Eu (ppm) #	1.6	1.6	1.1	1.1	1.29 ± 0.36	49
Fe (%) #	3.67	3.13	2.92	3.04	2.985 ± 0.346	49
Ge (ppm) $	0.1	n/a	0.1	0.1	0.14 ± 0.08	5
Hf (ppm) #	3	3	2	2	3.0 ± 0.8	49
Hg (ppb) •	153	93	169	153	167.1 ± 37.7	33
K (%) @	0.52	0.61	0.57	0.58	0.647 ± 0.055	15
La (ppm) #	28.9	28.4	25.2	26.3	27.12 ± 3.70	49
Lu (ppm) #	0.45	0.47	0.41	0.36	0.343 ± 0.140	49
Mg (%) @	0.51	0.52	0.54	0.54	0.541 ± 0.034	15
Mn (ppm) @	451	482	472	464	445.4 ± 63.0	25
Mo (ppm) @	3	2	4	3	1.7 ± 0.6	15
Mo (ppm) #	<1	<1	<1	21	7.0 ± 9.8	45
Na (%) #	0.75	0.59	0.58	0.59	0.564 ± 0.072	49
Nd (ppm) #	20	45	30	23	25.4 ± 5.7	38
Ni (ppm) @	32	33	34	34	31.8 ± 3.9	25
Ni (ppm) #	<41	<29	<28	<26	24 ± 22	49
P (%) @	0.120	0.159	0.127	0.124	0.1405 ± 0.0085	15
Pb (ppm) @	90	97	93	94	89.4 ± 9.8	25
Rb (ppm) #	41	44	30	40	26.2 ± 12.8	49
S (%) @	0.913	0.85	0.976	0.923	1.029 ± 0.090	5
Sb (ppm) #	2.0	2.0	1.8	1.6	1.76 ± 0.28	49
Sc (ppm) #	7.9	7.4	7.0	7.5	6.97 ± 0.81	49
Se (ppm) $	2.4	n/a	1.8	2.2	2.59 ± 0.32	23
Sm (ppm) #	5.0	6.0	5.3	5.1	4.41 ± 0.63	49
Sn (ppm) $	2	n/a	2	2	1.1 ± 0.7	5
Sn (ppm) @	n/a	4	n/a	n/a	3.0 ± 1.0	18
Sr (ppm) @	100	114	108	108	119.0 ± 5.7	15
Ta (ppm) #	<0.5	<0.5	<0.5	<0.5	<0.5	49
Tb (ppm) #	<0.5	<0.5	1.0	<0.5	0.59 ± 0.35	49
Te (ppm) $	0.1	n/a	0.2	0.2	0.19 ± 0.14	23
Th (ppm) #	5.9	5.4	4.6	4.9	5.46 ± 0.82	49
Ti (%) @	0.15	0.16	0.17	0.18	0.165 ± 0.012	15
Tl (ppm) $	0.6	n/a	0.6	0.6	0.36 ± 0.08	23
U (ppm) #	32.2	34.1	28.1	30.1	32.63 ± 4.87	49
V (ppm) @	45	48	48	48	44.1 ± 3.8	15
W (ppm) #	5	<1	<1	<1	<1	49
Y (ppm) @	22	24	23	23	23.4 ± 2.2	15
Yb (ppm) #	2.7	2.5	1.9	1.8	2.26 ± 0.55	49
Zn (ppm) @	176	182	171	166	174.7 ± 19.6	25
Zn (ppm) #	210	208	194	220	201.6 ± 45.5	49

† Symbols indicate the analytical method (see Table 8)

‡ Number of previous determinations for this standard performed by Actlabs for NB DNRE

Table 3-2. Analyses of Standards: TILL-2 and TILL-3

Element †	TILL-2			TILL-3		
	CS-S14 (2002)	Expected value ± 1 σ ¶	n ‡	CS-Q10 (2001)	Expected value ± 1 σ	n ‡
Ag (ppm) @	1.0	0.2 ± 0.1	29	1.5	1.6 ± 0.2	47
Al (%) @	7.07	8.5 ± 0.1	39	3.55	6.5 ± 0.1	41
As (ppm) #	25.6	26 ± 2	59	91.5	87 ± 4	49
Au (ppb) #	<2	2 ± 2	52	<2	6 ± 4	65
Ba (ppm) #	650	540 ± 56	134	320	489 ± 36	117
Be (ppm) @	3	4.0 ± 0.5	28	1	2.0 ± 0.5	27
Bi (ppm) $	5.8	4 ± 2	17	0.3	<5	25
Br (ppm) #	10.6	12.2 ± 1.1	49	5.0	4.5 ± 0.5	40
Ca (%) @	0.92	0.91 ± 0.05	58	2.16	1.88 ± 0.07	57
Cd (ppm) @	<0.3	0.3 ± 0.2	24	<0.3	<0.2	24
Ce (ppm) #	86	98 ± 7	79	38	42 ± 5	74
Co (ppm) #	13	15 ± 2	96	14	15 ± 2	96
Cr (ppm) #	69	74 ± 8	61	114	123 ± 14	56
Cs (ppm) #	12	12 ± 1	57	2	1.7 ± 0.4	41
Cu (ppm) @	138	150 ± 10	52	20	22 ± 5	49
Eu (ppm) #	1.4	1.0 ± 0.5	53	1.0	<1.0	35
Fe (%) #	3.73	3.84 ± 0.17	97	2.97	2.78 ± 0.12	88
Ge (ppm) $	0.9	n/a (<0.1)	2	0.2	n/a	
Hf (ppm) #	7	11 ± 1	66	5	8 ± 2	58
Hg (ppb) *	92	74 ± 13	32	106	107 ± 15	33
K (%) @	2.16	2.55 ± 0.10	58	1.93	2.01 ± 0.08	56
La (ppm) #	43.3	44 ± 4	101	19.4	21 ± 2	96
Lu (ppm) #	0.61	0.6 ± 0.2	35	0.26	0.2 ± 0.1	30
Mg (%) @	1.01	1.10 ± 0.04	47	0.84	1.03 ± 0.03	43
Mn (ppm) @	780	780 ± 28	42	511	520 ± 39	45
Mo (ppm) @	13	14 ± 2	74	<1	2 ± 1	38
Mo (ppm) #	13	14 ± 2	74	<1	2 ± 1	38
Na (%) #	1.65	1.62 ± 0.13	52	1.97	1.96 ± 0.08	54
Nd (ppm) #	34	36 ± 3	14	16	16 ± 1	13
Ni (ppm) @	33	32 ± 3	53	46	39 ± 7	52
Ni (ppm) #	<27	32 ± 3	53	50	39 ± 7	52
P (%) @	0.065	0.0750 ± 0.0080	62	0.044	0.0490 ± 0.0040	62
Pb (ppm) @	35	31 ± 3	50	27	26 ± 3	49
Rb (ppm) #	107	143 ± 12	81	66	55 ± 7	87
S (%) @	0.030	<0.05	14	0.016	<0.05	14
Sb (ppm) #	0.8	0.8 ± 0.1	46	0.8	0.9 ± 0.1	41
Sc (ppm) #	12.1	12 ± 1	64	10.5	10 ± 1	55
Se (ppm) $	0.8	n/a (0.9 ± 0.1)	2	0.3	n/a	
Sm (ppm) #	7.7	7.4 ± 0.6	50	3.5	3.3 ± 0.3	42
Sn (ppm) $	3	n/a (<1)	2	<1	n/a	
Sr (ppm) @	141	144 ± 8	65	296	300 ± 12	61
Ta (ppm) #	2.4	1.9 ± 0.2	47	<0.5	<0.5	41
Tb (ppm) #	1.0	1.2 ± 0.2	48	<0.5	<0.5	42
Te (ppm) $	<0.1	n/a (0.25 ± 0.05)	2	<0.1	n/a	
Th (ppm) #	14.7	18.4 ± 1.4	67	4.7	4.6 ± 0.4	55
Ti (%) @	0.47	0.5300 ± 0.0190	56	0.30	0.2910 ± 0.0090	52
Tl (ppm) $	1.0	n/a (0.33 ± 0.01)	2	0.3	n/a	
U (ppm) #	4.8	5.7 ± 0.4	58	1.9	2.1 ± 0.2	49
V (ppm) @	80	77 ± 10	70	63	62 ± 6	69
W (ppm) #	<1	5 ± 1	49	<1	<1	42
Y (ppm) @	23	40 ± 4	36	10	17 ± 3	36
Yb (ppm) #	3.2	3.7 ± 0.5	55	1.8	1.5 ± 0.2	20
Zn (ppm) @	117	130 ± 8	64	58	56 ± 6	68
Zn (ppm) #	120	130 ± 8	64	<50	56 ± 6	68

† Symbols indicate the analytical method (see Table 8) ‡ Number of determinations, excluding outliers.
¶ Figures in brackets were obtained from the indicated number of previous Actlabs analyses of this standard

Table 3-3. Analyses of Standards: TILL-4

Element †	TILL-4				
	CS-K10 (2001)	CS-M11 (2002)	CS-X8 (2002)	Expected value ± 1 s ¶	n ‡
Ag (ppm) @	0.4	0.7	0.7	<0.2	28
Al (%) @	4.98	12.71	10.85	7.6 ± 0.1	41
As (ppm) #	114	121	119	111 ± 6	59
Au (ppb) #	<2	11	16	5 ± 3	77
Ba (ppm) #	300	630	440	395 ± 37	132
Be (ppm) @	3	3	2	3.7 ± 0.5	27
Bi (ppm) $	46.7	44.7	46.6	44 ± 4	18
Br (ppm) #	8.6	9.1	8.2	8.6 ± 0.9	51
Ca (%) @	0.95	1.23	1.33	0.89 ± 0.04	59
Cd (ppm) @	<0.3	<0.3	<0.3	<0.2	24
Ce (ppm) #	73	83	73	78 ± 7	81
Co (ppm) #	7	9	7	8 ± 2	94
Cr (ppm) #	52	46	39	53 ± 10	66
Cs (ppm) #	13	14	12	12 ± 1	59
Cu (ppm) @	229	204	202	237 ± 17	53
Eu (ppm) #	1.3	1.3	1.3	<1.0	56
Fe (%) #	4.11	4.27	4.12	3.97 ± 0.19	105
Ge (ppm) $	0.1	0.5	0.3	n/a (0.2)	
Hf (ppm) #	9	9	7	10 ± 1	69
Hg (ppb) •	28	44	46	39 ± 12	34
In (ppm) $	<0.2	0.3	0.3	n/a (<0.2)	
K (%) @	2.84	2.31	2.34	2.70 ± 0.10	57
La (ppm) #	44.1	45.0	43.1	41 ± 4	108
Lu (ppm) #	0.56	0.52	0.52	0.5 ± 0.2	48
Mg (%) @	0.71	0.88	0.75	0.76 ± 0.02	44
Mn (ppm) @	450	486	473	490 ± 30	45
Mo (ppm) @	12	18	15	16 ± 2	77
Mo (ppm) #	11	20	21	16 ± 2	77
Na (%) #	1.81	1.86	1.71	1.82 ± 0.08	53
Nd (ppm) #	28	22	26	30 ± 2	14
Ni (ppm) @	18	10	13	17 ± 3	57
Ni (ppm) #	<30	<25	<27	17 ± 3	57
P (%) @	0.080	0.085	0.075	0.0880 ± 0.0050	60
Pb (ppm) @	57	55	47	50 ± 4	48
Rb (ppm) #	129	179	145	161 ± 15	86
S (%) @	0.072	0.083	0.029	0.08 ± 0.01	13
Sb (ppm) #	1.3	1.2	1.4	1.0 ± 0.1	48
Sc (ppm) #	11.1	11.0	9.9	10 ± 1	69
Se (ppm) $	0.8	1.1	1.1	n/a (0.5)	
Sm (ppm) #	6.3	6.4	5.8	6.1 ± 0.4	48
Sn (ppm) $	6	6	6	n/a (7)	
Sr (ppm) @	100	130	137	109 ± 11	64
Ta (ppm) #	1.4	1.3	1.1	1.6 ± 0.2	52
Tb (ppm) #	0.9	1.0	1.0	1.1 ± 0.2	53
Te (ppm) $	0.3	0.2	0.2	n/a (0.3)	
Th (ppm) #	16.0	16.8	14.8	17.4 ± 1.4	60
Ti (%) @	0.50	0.49	0.45	0.4840 ± 0.0130	51
Tl (ppm) $	1.1	1.1	1.3	n/a (1.3)	
U (ppm) #	3.4	5.3	4.1	5.0 ± 0.5	65
V (ppm) @	65	71	68	67 ± 7	70
W (ppm) #	180	180	180	204 ± 24	81
Y (ppm) @	15	34	31	33 ± 3	35
Yb (ppm) #	3.8	3.7	3.4	3.4 ± 0.5	55
Zn (ppm) @	66	64	57	70 ± 7	67
Zn (ppm) #	62	74	<50	70 ± 7	67

† Symbols indicate the analytical method (see Table 8) ‡ Number of determinations, excluding outliers.
¶ Figures in brackets were obtained from one previous Actlabs analyses of this standard

Table 3-4. Analyses of Standards: NB-CS1

Element †	NB-CS1					
	CS-B10 (2002)	CS-R11 (2002)	CS-X7 (2002)	average + standard deviation of analyses to date		
				ACTLABS (n=8)	Acme ICP-MS (n=8)	Becquerel INAA (n=6)
Ag (ppm) @	0.5	0.6	0.6	0.4 ± 0.2	0.030 ± 0.002	n/a
Al (%) @	4.50	6.19	4.75	6.04 ± 1.51 ¶	2.10 ± 0.10 ¶	n/a
As (ppm) #	21.6	17.7	14.3	15.2 ± 3.0	9.0 ± 0.6	12 ± 1
Au (ppb) #	6	<2	<2	3 ± 2	1.0 ± 0.5	2 ± 1
Ba (ppm) #	530	590	560	523 ± 64	111.3 ± 12.6 ¶	500 ± 15
Be (ppm) @	<1	<1	<1	2 ± 1	n/a	n/a
Bi (ppm) $	0.3	0.3	0.3	0.3 ± 0.1	0.20 ± 0.05	n/a
Br (ppm) #	<0.5	<0.5	<0.5	<0.5	n/a	<0.5
Ca (%) @	1.68	2.09	1.59	1.92 ± 0.17	1.70 ± 0.09 ¶	n/a
Cd (ppm) @	<0.3	<0.3	<0.3	<0.3	0.05 ± 0.01	n/a
Ce (ppm) #	80	88	68	76 ± 7	n/a	76 ± 6
Co (ppm) #	24	27	23	23 ± 3	21.2 ± 2.9	21 ± 1
Cr (ppm) #	136	141	106	120 ± 12	46.3 ± 2.5 ¶	118 ± 7
Cs (ppm) #	6	5	5	5 ± 1	n/a	5.4 ± 0.5
Cu (ppm) @	34	31	28	31 ± 3	30.12 ± 0.64	n/a
Eu (ppm) #	1.3	1.7	1.5	1.5 ± 0.1	n/a	2 ± 1
Fe (%) #	5.62	5.75	4.65	4.86 ± 0.54	3.54 ± 0.15 ¶	4.1 ± 0.2
Ge (ppm) $	0.4	0.5	0.4	0.6 ± 0.2	n/a	n/a
Hf (ppm) #	7	6	6	7 ± 1	n/a	7 ± 1
Hg (ppb) *	44	45	43	40 ± 7	36 ± 5	n/a
K (%) @	1.78	2.05	1.90	2.10 ± 0.20	0.24 ± 0.02 ¶	n/a
La (ppm) #	38.1	42.9	37.7	38.7 ± 2.1	26.5 ± 1.4 ¶	36 ± 2
Lu (ppm) #	0.50	0.55	0.47	0.49 ± 0.04	n/a	0.4 ± 0.1
Mg (%) @	1.34	1.46	1.37	1.46 ± 0.07	1.05 ± 0.06 ¶	n/a
Mn (ppm) @	1450	1722	1396	1500 ± 177	1672 ± 87 ¶	n/a
Mo (ppm) @	3	2	3	2 ± 1	0.39 ± 0.02	n/a
Mo (ppm) #	<1	<1	2	<1	n/a	<1
Na (%) #	1.30	1.42	1.12	1.24 ± 0.11	0.008 ± 0.001 ¶	1.08 ± 0.09
Nd (ppm) #	37	39	32	32 ± 6	n/a	n/a
Ni (ppm) @	67	70	63	65 ± 2.5	62.3 ± 4.0 ¶	n/a
Ni (ppm) #	<39	196	<28	52 ± 59	n/a	61 ± 3
P (%) @	0.055	0.060	0.051	0.061 ± 0.005	0.060 ± 0.002 ¶	n/a
Pb (ppm) @	18	18	20	23 ± 5	14.77 ± 1.43	n/a
Rb (ppm) #	136	85	88	93 ± 18	n/a	103 ± 9
S (%) @	0.015	0.016	0.005	0.018 ± 0.006	0.02 ± 0.01 ¶	n/a
Sb (ppm) #	1.1	1.2	1.4	1.0 ± 0.2	0.49 ± 0.04	0.9 ± 0.04
Sc (ppm) #	17.6	19.6	15.2	16.6 ± 1.5	4.2 ± 0.4 ¶	15 ± 1
Se (ppm) $	0.3	0.5	0.6	0.4 ± 0.1	0.2 ± 0.1	n/a
Sm (ppm) #	7.2	8.3	5.9	6.6 ± 0.8	n/a	6.4 ± 0.1
Sn (ppm) $	1	1	1	<1 ¶	n/a	n/a
Sr (ppm) @	103	131	97	137 ± 26	80.1 ± 5.4 ¶	n/a
Ta (ppm) #	<0.5	<0.5	<0.5	0.9 ± 0.8	n/a	1.0 ± 0.1
Tb (ppm) #	<0.5	<0.5	0.9	0.6 ± 0.3	n/a	1.0 ± 0.04
Te (ppm) $	<0.1	<0.1	<0.1	0.1 ± 0.1	0.02 ± 0.01	n/a
Th (ppm) #	10.7	9.7	9.3	9.9 ± 0.8	6.7 ± 0.4 ¶	10.1 ± 0.4
Ti (%) @	0.48	0.51	0.46	0.47 ± 0.08	0.027 ± 0.006 ¶	n/a
Tl (ppm) $	0.6	0.6	0.5	0.6 ± 0.1 ¶	0.07 ± 0.01	n/a
U (ppm) #	2.1	2.4	2.7	2.1 ± 0.3	0.5 ± 0.1 ¶	2.3 ± 0.1
V (ppm) @	108	123	106	104 ± 8	35 ± 2 ¶	n/a
W (ppm) #	<1	<1	<1	<1	<0.1 ¶	<1
Y (ppm) @	20	24	16	24 ± 4 ¶	n/a	n/a
Yb (ppm) #	3.2	3.5	3.0	3.2 ± 0.3	n/a	3 ± 1
Zn (ppm) @	81	76	67	83 ± 10	66.4 ± 3.5	n/a
Zn (ppm) #	100	132	100	121 ± 21	n/a	<100

† symbols indicate the analytical method (see Table 8) ¶ partial extraction

Table 3-5. Analyses of Standards: NB-01

Element †	NB-01					
	CS-B15	CS-R15	CS-X15	average ± standard deviation of analyses to date		
				ACTLABS (n=6)	Acme ICP-MS (n=5)	Becquerel INAA (n=5)
Ag (ppm) @	18.0	21.2	18.7	18.3 ± 1.5	20.661 ± 0.264	n/a
Ag (ppm) #	32	27	26	27 ± 2	n/a	19 ± 2
Al (%) @	4.49	5.89	3.83	5.40 ± 0.90 ¶	1.91 ± 0.03 ¶	n/a
As (ppm) #	823	909	850	855 ± 28	854.8 ± 9.0	926 ± 15
Au (ppb) #	101	300	108	135 ± 74	78.9 ± 10.0	106 ± 10
Ba (ppm) #	1200	1200	1100	1183 ± 107	135.9 ± 12.5 ¶	1040 ± 420
Be (ppm) @	4	4	4	5 ± 1	n/a	n/a
Bi (ppm) $	72.2	69.1	69.7	72.6 ± 4.3	65.82 ± 1.93	n/a
Br (ppm) #	6.7	6.5	6.6	7.1 ± 0.6	n/a	9.9 ± 2.2
Ca (%) @	1.72	1.92	1.54	1.77 ± 0.12	1.21 ± 0.01 ¶	n/a
Cd (ppm) @	16.6	25.9	15.3	18.2 ± 4.0	30.32 ± 0.55	32 ± 1
Ce (ppm) #	75	80	79	79 ± 3	n/a	85 ± 6
Co (ppm) #	21	23	22	22 ± 1	20.5 ± 0.2	23 ± 1
Cr (ppm) #	90	87	86	87 ± 3	38.4 ± 1.8 ¶	82 ± 9
Cs (ppm) #	7	7	6	6 ± 0.5	n/a	7.0 ± 0.4
Cu (ppm) @	916	1086	984	982 ±57	1161.95 ± 39.54	n/a
Eu (ppm) #	1.4	1.5	1.4	1.4 ± 0.1	n/a	2 ± 1
Fe (%) #	5.71	5.53	5.59	5.63 ± 0.08	4.12 ± 0.03 ¶	5.3 ± 0.1
Ge (ppm) $	0.2	0.2	0.2	0.2 ± 0.0	n/a	n/a
Hf (ppm) #	8	8	8	8 ± 0.5	n/a	9 ± 1
Hg (ppb) *	389	381	371	366 ± 15	330 ± 22	n/a
In (ppm) $	1.4	2.2	1.3	1.6 ± 0.35	n/a	n/a
K (%) @	1.24	1.42	1.42	1.36 ± 0.06	0.14 ± 0.01 ¶	n/a
La (ppm) #	36.2	37.5	37.1	38.3 ± 1.5	16.3 ± 0.3 ¶	40 ± 3
Lu (ppm) #	0.52	0.48	0.45	0.50 ± 0.03	n/a	0.4 ± 0.1
Mg (%) @	1.00	1.13	1.08	1.06 ± 0.04	0.81 ± 0.02 ¶	n/a
Mn (ppm) @	2742	2848	2627	2852 ± 364	2190 ± 46 ¶	n/a
Mo (ppm) @	19	21	18	19 ± 1	19.43 ± 0.21	n/a
Mo (ppm) #	25	20	24	21 ± 3	n/a	23 ± 1
Na (%) #	1.35	1.39	1.20	1.30 ± 0.06	0.017 ± 0.0004 ¶	1.3 ± 0.1
Nd (ppm) #	29	30	27	28 ± 2	n/a	n/a
Ni (ppm) @	39	43	42	39 ± 3	38.0 ± 1.3 ¶	n/a
Ni (ppm) #	<33	<33	<30	<30	n/a	42 ± 5
P (%) @	0.061	0.084	0.063	0.079 ± 0.012	0.084 ± 0.001 ¶	n/a
Pb (ppm) @	2836	3539	2698	2894 ± 329	2586.70 ± 54.82	n/a
Rb (ppm) #	80	87	85	75 ± 10	n/a	98 ± 3
S (%) @	1.028	1.828	0.940	1.366 ± 0.314	1.33 ± 0.11 ¶	n/a
Sb (ppm) #	59.3	59.1	58.0	60.7 ± 2.1	50.82 ± 1.76	66.5 ± 0.9
Sc (ppm) #	12.8	13.4	12.1	12.9 ± 0.4	3.0 ± 0.1 ¶	12 ± 1
Se (ppm) $	2.9	3.8	3.3	3.5 ± 0.4	2.7 ± 0.2	n/a
Sm (ppm) #	6.2	6.5	5.9	6.1 ± 0.2	n/a	7.0 ± 0.1
Sn (ppm) $	7	9	7	9 ± 1 ¶	n/a	n/a
Sr (ppm) @	163	179	148	190 ± 28	109.8 ± 1.0 ¶	n/a
Ta (ppm) #	<0.5	<0.5	<0.5	0.5 ± 0.6	n/a	1.0 ± 0.4
Tb (ppm) #	1.1	<0.5	1.2	0.7 ± 0.4	n/a	0.8 ± 0.1
Te (ppm) $	0.7	1.0	0.7	0.8 ± 0.1	0.78 ± 0.06	n/a
Th (ppm) #	12.7	11.1	12.0	12.0 ± 0.6	6.5 ± 0.3 ¶	14 ± 1
Ti (%) @	0.34	0.49	0.38	0.42 ± 0.05	0.064 ± 0.003 ¶	n/a
Tl (ppm) $	1.0	1.0	1.0	1.0 ± 0.0 ¶	0.35 ± 0.02	n/a
U (ppm) #	5.1	4.7	4.9	4.5 ± 0.4	1.6 ± 0.1 ¶	4.0 ± 0.1
V (ppm) @	84	96	88	86 ± 5	41 ± 1 ¶	n/a
W (ppm) #	10	10	8	9 ± 1	5.4 ± 0.3 ¶	10 ± 1
Y (ppm) @	20	24	18	23 ± 3 ¶	n/a	n/a
Yb (ppm) #	3.4	3.2	3.0	3.3 ± 0.2	n/a	5 ± 0.4
Zn (ppm) @	3278	4713	3087	3431 ± 661	3358.5 ± 117.7	n/a
Zn (ppm) #	3270	3350	3230	3455 ± 176	n/a	3620 ± 147

† symbols indicate the analytical method (see Table 8) ¶ partial extraction

Table 4-1. Analyses of Standards: DMMAS-15 (by INAA), 2002

Element †	DMMAS-15					
	630	631	632	633	634	Accepted Value
As (ppm)	2450	2420	2400	2460	2230	2400 ± 250
Au (ppb)	532	555	526	561	487	517 ± 88
Ba (ppm)	480	390	320	430	280	370 ± 120
Br (ppm)	2.1	2.8	2.0	2.9	<0.5	3.0 ± 1.5
Ca (%)	7	9	8	9	9	8 ± 1.6
Ce (ppm)	25	20	23	25	21	20 ± 5
Co (ppm)	69	68	66	69	65	65 ± 7
Cr (ppm)	144	143	141	145	141	132 ± 22
Cs (ppm)	<1	<1	<1	<1	<1	1 ± 0.9
Eu (ppm)	1.4	1.0	1.3	1.2	0.9	1.1 ± 0.2
Fe (%)	8.25	8.30	8.08	8.57	8.20	7.89 ± 0.87
Hf (ppm)	3	2	3	2	2	2 ± 1
La (ppm)	12.2	12.8	12.4	12.3	12.0	12 ± 1.5
Lu (ppm)	0.52	0.55	0.44	0.54	0.42	0.49 ± 0.11
Mo (ppm)	<3	<2	<2	<2	<2	
Na (%)	0.78	0.77	0.79	0.75	0.75	0.75 ± 0.08
Nd (ppm)	10	12	10	10	10	11 ± 4
Ni (ppm)	<38	<32	<29	<30	<29	
Rb (ppm)	41	39	45	51	49	46 ± 20
Sb (ppm)	7.0	8.0	6.9	10.7	8.9	8.3 ± 2.8
Sc (ppm)	19.2	19.9	19.7	19.7	18.6	18 ± 2.0
Sm (ppm)	3.9	4.0	3.9	4.0	3.9	3.5 ± 0.5
Ta (ppm)	<0.5	<0.5	<0.5	<0.5	<0.5	
Tb (ppm)	<0.5	0.9	0.9	<0.5	0.8	0.7 ± 0.2
Th (ppm)	1.5	1.5	1.5	1.0	1.2	1.1 ± 0.6
U (ppm)	<0.6	<0.5	<0.5	<0.5	<0.5	
W (ppm)	18	18	17	16	15	17 ± 4
Yb (ppm)	5.4	3.7	2.9	3.6	2.8	3.3 ± 1.0
Zn (ppm)	259	223	258	188	240	210 ± 60

Table 4-2. Analyses of Standards: DMMAS-18 (by INAA), 2001

	DMMAS-18					
Element	**501**	**502**	**503**	**504**	**505**	**Accepted Value**
As (ppm)	2340	2330	2310	2250	2430	2368 ± 298
Au (ppb)	541	560	523	553	623	590 ± 84
Ba (ppm)	370	380	440	460	370	413 ± 144
Br (ppm)	3.0	4.0	3.9	3.2	3.0	3.9 ± 2.95
Ca (%)	8	8	8	8	8	8 ± 2
Ce (ppm)	21	23	22	22	21	21 ± 5
Co (ppm)	67	65	64	64	70	69 ± 8
Cr (ppm)	135	141	130	128	148	143 ± 29
Cs (ppm)	1	2	2	2	<1	
Eu (ppm)	1.2	1.2	1.1	1.1	1.2	1.2 ± 0.27
Fe (%)	8.32	8.30	8.02	7.84	8.47	8.62 ± 0.60
Hf (ppm)	3	3	3	2	3	3 ± 1
La (ppm)	12.7	12.0	12.1	11.9	12.6	12.3 ± 1.3
Lu (ppm)	0.54	0.54	0.54	0.52	0.56	0.56 ± 0.09
Mo (ppm)	<1	<1	<0.1	<1	<1	
Na (%)	0.75	0.75	0.73	0.75	0.75	0.76 ± 0.05
Nd (ppm)	13	11	9	10	10	11 ± 10
Ni (ppm)	<22	<20	<20	140	206	
Rb (ppm)	33	44	48	45	36	40 ± 10
Sb (ppm)	12.9	12.8	11.9	11.7	13.3	13.1 ± 4.11
Sc (ppm)	19.6	19.8	19.2	18.7	19.9	20.6 ± 2.1
Sm (ppm)	3.7	3.6	3.7	3.6	3.8	3.7 ± 0.38
Ta (ppm)	<0.5	<0.5	<0.5	<0.5	<0.5	
Tb (ppm)	0.9	0.8	1.1	0.8	<0.5	
Th (ppm)	1.0	1.0	1.3	1.5	1.3	1.1 ± 0.7
U (ppm)	<0.5	1.6	1.6	<0.5	<0.5	
W (ppm)	18	16	16	16	17	18 ± 3
Yb (ppm)	3.6	3.6	3.5	3.4	3.8	3.7 ± 0.75
Zn (ppm)	237	224	221	209	229	242 ± 55
Element	**506**	**507**	**508**	**509**	**510**	**Accepted Value**
As (ppm)	2430	2410	2400	2420	2430	2368 ± 298
Au (ppb)	547	596	594	589	543	590 ± 84
Ba (ppm)	420	400	370	430	450	413 ± 144
Br (ppm)	3.0	4.0	3.0	2.9	3.2	3.9 ± 2.95
Ca (%)	8	8	8	8	8	8 ± 2
Ce (ppm)	21	22	20	23	21	21 ± 5
Co (ppm)	68	69	67	69	67	69 ± 8
Cr (ppm)	140	139	130	143	137	143 ± 29
Cs (ppm)	<1	2	1	2	<1	
Eu (ppm)	1.1	1.2	1.3	1.1	1.1	1.2 ± 0.27
Fe (%)	8.72	8.56	8.41	8.51	8.52	8.62 ± 0.60
Hf (ppm)	2	1	3	3	2	3 ± 1
La (ppm)	12.6	12.8	12.7	12.9	12.4	12.3 ± 1.3
Lu (ppm)	0.54	0.56	0.54	0.54	0.53	0.56 ± 0.09
Mo (ppm)	<1	<1	<1	<1	<1	
Na (%)	0.77	0.79	0.74	0.78	0.75	0.76 ± 0.05
Nd (ppm)	11	9	13	7	12	11 ± 10
Ni (ppm)	<36	184	<20	<20	315	
Rb (ppm)	50	44	43	53	38	40 ± 10
Sb (ppm)	12.2	13.2	12.5	13.5	12.8	13.1 ± 4.11
Sc (ppm)	20.0	20.0	19.4	19.6	20.4	20.6 ± 2.1
Sm (ppm)	3.7	3.7	3.8	3.8	3.8	3.7 ± 0.38
Ta (ppm)	<0.5	<0.5	<0.5	<0.5	<0.5	
Tb (ppm)	<0.5	0.8	<0.5	0.9	<0.5	
Th (ppm)	1.1	1.1	1.5	1.5	<0.2	1.1 ± 0.7
U (ppm)	1.9	2.1	<0.5	<0.5	<0.5	
W (ppm)	16	15	18	15	16	18 ± 3
Yb (ppm)	3.6	3.8	3.6	3.6	3.5	3.7 ± 0.75
Zn (ppm)	242	255	259	231	243	242 ± 55

Table 4-3. Analyses of Standards: GXR-1, GXR-2, GXR-4 and GXR-6 (by ICP, ICP-MS, and CV-AAS)

Element †	2001	2002-1	2002-2	Cert. Data ‡	2001	2002-1	2002-2	Cert. Data ‡
	GXR-1				GXR-2			
Ag (ppm) @	30.1	30.4	33.2	31	17.1	17.0	17.5	17
Al (%) @	1.71	1.75	1.98	3.52	9.98	8.67	15.92	16.46
Be (ppm) @	1	<1	<1	1.22	1	1	1	1.7
Bi (ppm) $	1451.7	1830		1380	0.3	0.4		0.69
Ca (%) @	1.03	0.90	1.00	0.958	0.97	0.90	1.08	0.929
Cd (ppm) @	3.7	0.4	<0.3	3.3	3.2	1.7	1.5	4.1
Cu (ppm) @	1176	1035	1169	1110	81	71	74	76
Ge (ppm) $	0.6	0.5		n/a	0.2	<0.1		n/a
Hg (ppb) •	3820	3875	3861	3900	3063	2824	2822	2900
In (ppm) $	0.4	0.9		0.77	<0.2	<0.2		0.252
K (%) @	0.05	0.05	0.05	0.05	1.41	1.23	1.51	1.37
Mg (%) @	0.21	0.20	0.21	0.22	0.91	0.84	1.13	0.85
Mn (ppm) @	973	937	1005	853	934	927	950	1008
Mo (ppm) @	16	19	23	18	3	4	5	*2.1*
Ni (ppm) @	42	36	42	41	17	14	9	21
P (%) @	0.052	0.055	0.058	0.065	0.059	0.058	0.070	0.105
Pb (ppm) @	677	760	829	730	640	687	691	690
S (%) @	0.238	0.232	0.240	0.257	0.030	0.028	0.036	0.031
Se (ppm) $	16.1	16.1		16.6	0.3	0.7		0.61
Sn (ppm) $	15	18		54	<1	<1		1.7
Sr (ppm) @	302	288	324	275	143	149	177	160
Te (ppm) $	16.3	13.3		13	0.8	0.7		0.69
Ti (%) @	0.02	0.02	0.03	0.036	0.27	0.25	0.30	0.3
Tl (ppm) $	0.5	0.5		0.39	0.9	0.8		1.03
V (ppm) @	72	88	98	80	49	55	56	52
Y (ppm) @	33	33	36	32	17	17	29	17
Zn (ppm) @	657	688	761	760	492	503	513	530
	GXR-4				GXR-6			
Ag (ppm) @	2.8	3.5	3.7	4	0.3	0.8	0.8	1.3
Al (%) @	4.76	6.76	6.70	7.20	11.32	7.83	25.93	17.68
Be (ppm) @	2	1	1	1.9	1	<1	<1	1.4
Bi (ppm) $	23.3	20.4		19	0.2	0.3		0.29
Ca (%) @	1.08	1.02	1.06	1.01	0.20	0.13	0.34	0.179
Cd (ppm) @	0.5	<0.3	<0.3	*0.86*	<0.3	<0.3	<0.3	*1*
Cu (ppm) @	6017	5426	5856	6520	73	59	63	66
Ge (ppm) $	0.3	0.2		n/a	0.2	0.1		n/a
Hg (ppb) •	112	112	114	110				
In (ppm) $	<0.2	0.2		0.27	<0.2	<0.2		0.26
K (%) @	3.88	3.72	3.97	4.01	2.12	1.13	2.17	1.87
Mg (%) @	1.77	1.75	1.84	1.66	0.77	0.27	1.21	0.61
Mn (ppm) @	133	142	151	155	1101	852	1104	1008
Mo (ppm) @	331	310	317	310	1	3	5	2.4
Ni (ppm) @	38	35	39	42	25	20	8	27
P (%) @	0.110	0.120	0.120	0.120	0.059	0.058	0.070	0.035
Pb (ppm) @	38	53	57	52	85	97	101	101
S (%) @	1.602	1.667	1.668	1.770	0.017	0.012	0.018	0.016
Se (ppm) $	7.2	5.7		5.6	0.9	0.9		0.94
Sn (ppm) $	3	4		5.6	1	<1		1.7
Sr (ppm) @	218	219	229	221	43	27	66	35
Te (ppm) $	1.0	0.9		0.97	0.1	<1		0.018
Ti (%) @	0.19	0.22	0.26	0.29	0.50	0.48	0.54	0.498
Tl (ppm) $	2.2	3.2		3.2	2.4	2.0		2.2
V (ppm) @	75	92	97	87	194	199	199	186
Y (ppm) @	14	16	17	14	18	3	33	14
Zn (ppm) @	76	68	72	73	137	115	124	118

† Symbols indicate the analytical method (see Table 8)

‡ Certificate data are proposed, except for those in *italics* which are information values

Table 4-4. Analyses of Standards: DNC-1, G-2, SCO-1 and SDC-1 (by ICP)

Element	2001	2002-1	2002-2	Cert. Data ‡	2001	2002-1	2002-2	Cert. Data ‡
	DNC-1				G-2			
Ag (ppm)	<0.3	<0.3	<0.3	*0.027*	<0.3	<0.3	<0.3	0.04
Al (%)	6.80	9.66	9.11	9.687	4.98	4.60	5.29	8.147
Be (ppm)	<1	<1	<1	1	2	2	2	2.5
Ca (%)	6.97	8.18	7.66	8.055	1.54	1.18	1.09	1.401
Cd (ppm)	<0.3	<0.3	<0.3	*0.182*	<0.3	<0.3	<0.3	0.016
Cu (ppm)	96	91	87	96	11	9	11	11
K (%)	0.15	0.18	0.18	0.19	3.82	2.97	3.26	3.718
Mg (%)	6.28	4.97	5.78	6.06	0.44	0.27	0.34	0.452
Mn (ppm)	1010	1109	1024	1154	237	220	221	232
Mo (ppm)	3	2	3	*0.7*	3	1	2	*1.1*
Ni (ppm)	252	264	240	247	3	<1	<1	*5*
P (%)	0.021	0.024	0.022	0.037	0.047	0.038	0.042	0.061
Pb (ppm)	<3	8	6	6.3	28	32	28	30
S (%)	0.056	0.050	0.044	*0.039*	0.012	0.006	0.007	*0.01*
Sr (ppm)	140	136	127	145	425	389	387	478
Ti (%)	0.25	0.30	0.28	0.287	0.27	0.22	0.28	0.288
V (ppm)	131	162	150	148	32	33	34	36
Y (ppm)	15	20	18	18	7	5	5	11
Zn (ppm)	72	55	53	66	97	74	78	86
	SCO-1				SDC-1			
Ag (ppm)	<0.3	0.5	0.5	0.134	<0.3	<0.3	<0.3	0.041
Al (%)	4.27	6.34	4.24	7.24	8.51	5.10	12.16	8.338
Be (ppm)	2	<1	<1	1.84	2	2	2	3.0
Ca (%)	1.89	1.93	1.64	1.87	1.43	0.90	1.17	1.001
Cd (ppm)	<0.3	<0.3	<0.3	0.14	<0.3	<0.3	<0.3	*0.08*
Cu (ppm)	28	27	27	28.7	31	28	27	30
K (%)	2.21	2.06	1.93	2.30	2.83	2.24	2.47	2.722
Mg (%)	1.67	1.61	1.48	1.64	1.18	0.79	1.13	1.019
Mn (ppm)	355	401	351	410	889	848	781	883
Mo (ppm)	2	5	2	1.37	2	3	4	*0.25*
Ni (ppm)	27	25	25	27	35	31	26	38
P (%)	0.073	0.081	0.071	0.090	0.058	0.052	0.053	0.069
Pb (ppm)	26	31	32	31	11	29	30	25
S (%)	0.065	0.062	0.053	0.063	0.069	0.053	0.060	0.065
Sr (ppm)	148	160	125	174	200	145	178	183
Ti (%)	0.31	0.34	0.33	0.38	0.69	0.60	0.57	0.606
V (ppm)	125	146	137	131	106	106	95	102
Y (ppm)	17	21	15	26	48	22	58	40
Zn (ppm)	108	97	92	103	109	96	88	103

‡ Certificate data that are underlined are recommended values; other values are proposed, except for those in *italics* which are information values

Table 5. Replication of Duplicate Samples

ELEMENT	Average % deviation from the mean *			ELEMENT	Average % deviation from the mean*		
	Blind Anal. Dupl.	Anal. Dupl. †	Field Dupl.		Blind Anal. Dupl.	Anal. Dupl. †	Field Dupl.
Ag (ICP)	33.0	13.7	2.5	Na (INAA)	3.8		10.9
Al (ICP)	13.0	10.7	31.1	Nd (INAA)	10.2		18.8
As (INAA)	6.8		5.6	Ni (ICP)	4.1	1.6	28.2
Au (INAA)	22.6		18.4	Ni (INAA)	37.7		8.2
Ba (INAA)	15.2		8.7	P (ICP)	4.8	3.9	13.3
Be (ICP)	10.8	2.4	10.0	Pb (ICP)	9.5	5.0	9.0
Bi (ICP-MS)	9.2	4.5	12.6	Rb (INAA)	9.3		6.9
Br (INAA)	21.8		38.8	S (ICP)	16.0	7.4	37.6
Ca (ICP)	8.0	4.8	16.6	Sb (INAA)	11.6		6.1
Cd (ICP)	8.9	0.5	0.0	Sc (INAA)	3.7		7.5
Ce (INAA)	4.8		8.6	Se (ICP-MS)	18.0	21.2	27.1
Co (INAA)	4.6		12.2	Sm (INAA)	2.6		15.2
Cr (INAA)	3.4		9.5	Sn (ICP-MS)	4.0	9.5	6.7
Cs (INAA)	6.1		5.2	Sr (ICP)	5.0	4.5	16.6
Cu (ICP)	5.9	2.0	6.3	Ta (INAA)	37.6		28.4
Eu (INAA)	7.5		9.9	Tb (INAA)	17.0		51.2
Fe (INAA)	3.0		7.1	Te (ICP-MS)	4.8	5.7	0.0
Ge (ICP-MS)	15.9	10.0	25.9	Th (INAA)	4.4		7.0
Hf (INAA)	11.6		8.0	Ti (ICP)	6.9	6.7	9.4
Hg (CV-AAS)	4.2	3.3	12.7	Tl (ICP-MS)	5.3	2.7	7.7
K (ICP)	7.5	2.9	8.9	U (INAA)	14.1		26.3
La (INAA)	4.6		9.5	V (ICP)	6.0	3.8	5.9
Lu (INAA)	7.0		9.4	W (INAA)	24.5		37.6
Mg (ICP)	9.2	5.3	15.8	Y (ICP)	11.1	11.0	30.9
Mn (ICP)	3.9	2.8	6.1	Yb (INAA)	7.2		10.3
Mo (ICP)	35.3	21.0	20.2	Zn (ICP)	3.4	1.3	7.0
Mo (INAA)	35.0		64.9	Zn (INAA)	13.7		30.5

* - the average of the percent deviation from the mean value of the pair of analyses for each sample (e.g., if duplicate analyses return values of 1 and 3 for an element, there is a 50% deviation from the mean value of 2; if duplicate values are identical, there is 0% deviation from the mean)

† -for analytical duplicates prepared by Activation Laboratories Limited

Table 6-1. Variation in Element Values from One Year to the Next: As to Mo

ELEMENT	Average % deviation from the mean (*) for duplicate samples analysed in the same annual batch (n=24)	Standard Deviation	Average % deviation from the mean (†) for samples analysed in 1999 and reanalysed in 2001 (n=8)	Average % deviation from the mean (†) for samples analysed in 2001 and reanalysed in 2002 (n=21)	Average % deviation from the mean (†) for samples analysed in 1999 and reanalysed in 2002 (n=5)
Ag (ICP)	6.0	7.9	-15.0	51.1	40.6
Al (ICP)	8.1	8.9	-5.1	15.4	-2.8
As (INAA)	5.9	5.5	1.0	1.8	1.0
Au (INAA)	24.9	30.0	-7.1	2.7	-40.0
Ba (INAA)	9.7	6.7	-2.1	13.9	4.1
Be (ICP)	2.8	8.1	0.0	-17.5	0.0
Bi (ICP-MS)	6.8	11.7	n/a	11.2	n/a
Br (INAA)	11.1	23.2	19.7	-8.7	-15.1
Ca (ICP)	5.3	5.0	12.8	-2.2	2.9
Cd (ICP)	5.1	13.9	2.9	-16.2	-34.4
Ce (INAA)	3.8	2.8	-9.8	-0.6	-11.5
Co (INAA)	5.6	4.1	4.1	0.0	-3.1
Cr (INAA)	6.2	5.2	-3.9	-2.1	-8.2
Cs (INAA)	11.7	17.7	-0.4	-4.9	-10.6
Cu (ICP)	4.2	3.7	-7.1	0.9	-3.0
Eu (INAA)	7.4	4.8	-5.6	-5.6	-11.9
Fe (INAA)	4.0	3.6	0.5	-0.2	-2.4
Ge (ICP-MS)	10.5	12.5	n/a	6.7	n/a
Hf (INAA)	8.8	14.9	-13.6	-4.6	-15.8
Hg (CV-AAS)	5.6	14.5	11.1	6.8	21.9
K (ICP)	3.7	3.3	7.9	-11.2	-4.4
La (INAA)	3.2	2.3	-3.8	-2.6	-4.3
Lu (INAA)	4.8	3.7	-3.4	-4.6	-3.0
Mg (ICP)	4.4	4.7	8.2	-2.9	-0.1
Mn (ICP)	3.7	3.6	-2.3	1.5	-1.1
Mo (ICP)	12.6	16.0	2.5	26.5	13.9
Mo (INAA)	42.3	38.1	-6.9	7.9	15.7

* calculated as for Table 5

† calculated by dividing the difference from the first year to the second (positive or negative) by the sum of the two values, and multiplying by 100

Table 6-2. Variation in Element Values from One Year to the Next: Na to Zn

ELEMENT	Average % deviation from the mean (*) for duplicate samples analysed in the same annual batch (n=24)	Standard Deviation	Average % deviation from the mean (†) for samples analysed in 1999 and reanalysed in 2001 (n=8)	Average % deviation from the mean (†) for samples analysed in 2001 and reanalysed in 2002 (n=21)	Average % deviation from the mean (†) for samples analysed in 1999 and reanalysed in 2002 (n=5)
Na (INAA)	4.4	3.8	3.5	-0.3	0.8
Nd (INAA)	7.5	9.7	-28.1	-0.9	-21.4
Ni (ICP)	5.2	5.8	-0.4	-6.6	-1.2
Ni (INAA)	20.7	27.9	45.7	-21.9	-0.3
P (ICP)	3.3	3.4	-0.6	-2.4	-10.8
Pb (ICP)	3.8	4.2	13.4	-6.1	0.7
Rb (INAA)	8.8	9.5	-25.9	22.0	-12.0
S (ICP)	13.8	17.3	3.9	-18.3	-2.8
Sb (INAA)	8.2	9.2	-4.0	3.0	-6.7
Sc (INAA)	3.6	2.9	-1.8	-0.4	-1.8
Se (ICP-MS)	20.0	14.7	n/a	9.2	n/a
Sm (INAA)	3.6	3.7	-0.4	-0.6	-6.0
Sn (‡)	5.9	14.9	0.0	-2.0	-25.0
Sr (ICP)	4.7	4.2	3.0	-0.5	-3.0
Ta (INAA)	30.2	35.1	-6.8	-4.2	19.6
Tb (INAA)	31.1	28.1	6.6	-4.8	23.1
Te (ICP-MS)	3.9	11.1	n/a	-14.9	n/a
Th (INAA)	4.5	3.2	-2.8	-1.9	-6.2
Ti (ICP)	4.9	5.6	8.4	-5.0	2.2
Tl (ICP-MS)	4.2	5.8	n/a	1.6	n/a
U (INAA)	6.6	4.7	-4.3	-1.5	-5.9
V (ICP)	3.8	3.8	-6.1	4.0	-1.4
W (INAA)	20.8	34.6	-4.4	4.0	-13.3
Y (ICP)	7.2	9.0	14.7	5.0	2.6
Yb (INAA)	4.9	5.2	-2.3	-8.7	-10.1
Zn (ICP)	2.9	2.8	3.3	-7.2	3.7
Zn (INAA)	12.2	13.1	7.7	-3.4	-3.1

* calculated as for Table 5

† calculated by dividing the difference from the first year to the second (positive or negative) by the sum of the two values, and multiplying by 100

‡ by fusion-ICP in 1999 and by ICP-MS in 2001 and 2002

Table 7. Legend for the Site Data File (Appendix 1)

RECORD	TEXT CODE	DEFINITION
Sample ID	CS	Coldstream map area (NTS 21 J/6)
	-H	Westernmost grid line (UTM easting ^{6}30000)
	-X	Easternmost grid line (UTM easting ^{6}54000)
	01	Northernmost grid line (UTM northing ^{51}51000)
	15	Southernmost grid line (UTM northing ^{51}23000)
Replicate Status	0	Routine sample site
	1	First of a site duplicate pair
	2	Second of a site duplicate pair
Sampled By		- initials of the sampler
	AAS	Allen Seaman
	TJM	Trevor MacLeod
	VJB	Vernon Banks
Date Sampled	xxxx/xx/xx	Year/Month/Day
Mapsheet	21 J/06	Coldstream National Topographic System map area
UTM Easting	xxxxxx	NAD 27 – measured by GPS and rounded to the nearest 10 m, except for 1998 sample sites (these were measured to the nearest 25m, from the location plotted on the map)
UTM Northing	xxxxxxx	NAD 27 – measured by GPS and rounded to the nearest 10 m, except for 1998 sample sites (these were measured to the nearest 25m, from the location plotted on the map)
Elevation	xxx	m - estimated from the contour lines on the NTS topographic map
Material	aT	Ablation till
	bT	Basal lodgement till
	dT	Basal deformation till
	mT	Basal meltout till
	GF	Glaciofluvial sediment
	GL	Glaciolacustrine sediment
Compactness	vL	Very loose
	L	Loose
	mL	Moderately loose
	mC	Moderately compact
	C	Compact
	vC	Very Compact
	eC	Extremely compact
	K	Cemented
Drainage	R	Rapidly drained
	W	Well drained
	M	Moderately well drained
	I	Imperfectly drained
	P	Poorly drained
Depth to Base	xx	cm - depth from the top of the mineral soil to the base of the excavated section, or to the base of the sampled unit in a multi-unit section
Bedrock at Base	N	Bedrock not encountered in section
	P	Bedrock possibly encountered at the base of the section
	Y	Bedrock at the base of the section

Stone Coverage	x/y 1 2 3 4	x – stones 25 to 100 cm in size y – stones >100 cm in size <1 % 1-3 % 4-15 % 16-50%
Colour		Munsell soil colour
Gravel	%	Visual estimate of total percent volume of pebble, cobble and boulder size material in the sampled unit
Underlying Rock Unit #	**Jurassic**	
	EJCmi	*Caraquet Dyke:* dark grey, tholeiitic diabase
	Carboniferous	
	LCMOç	*Mountain View Formation:* grey quartzose sandstone and quartz-pebble conglomerate
	ECCIc	*Carlisle Formation:* red polymictic pebble-cobble conglomerate, red lithic sandstone; minor red mudstone locally containing limestone nodules; minor red breccia and grey arkose
	ECmv	*unnamed unit:* dark grey, amygdaloidal mafic volcanic rocks
	Devonian	
	EDHfib	*Hawkshaw Granite:* pink, medium-grained, equigranular biotite granite
	EDHfim	*Hawkshaw Granite:* pink, medium-grained, equigranular muscovite-biotite granite: minor garnet-bearing granite and pegmatite
	EDNWfib	*Nashwaak Granite:* pink, medium-grained, equigranular biotite granite
	EDNWfim	*Nashwaak Granite:* pink, medium-grained, equigranular muscovite-biotite granite: minor garnet-bearing granite and pegmatite
	EDHPii	*Howard Peak Granodiorite:* grey, medium-grained, equigranular foliated, biotite and hornblende-biotite granodiorite and tonalite
	EDBLfi	*Becaguimec Lake Granite:* grey to pink, fine- to medium-grained, micrographic, biotite and hornblende-biotite granite and granodiorite; minor reddish brown quartz-feldspar porphyry and red granophyre
	EDBLmi	*Becaguimec Lake Gabbro:* green to grey, medium-grained, diabase to ophitic gabbro; minor pinkish grey monzodiorite
	EDWmv	*Wapske Formation:* dark green, amygdaloidal mafic volcanic rocks; minor sedimentary rocks
	EDWc	*Wapske Formation:* dark grey slate and siltstone interbedded with grey sandstone and grey pebble-cobble polymictic conglomerate
	EDCGc	*Costigan Mountain Formation:* dark grey siltstone interbedded with grey quartzose sandstone, and minor polymictic conglomerate
	EDCGfv	*Costigan Mountain Formation:* pink trachytic feldspar porphyry, pink trachytic quartz-feldspar porphyry, pink lapilli rhyolite tuff; minor pink eutaxitic rhyolite tuff
	Silurian	
	LSSMc	*Smyrna Mills Formation:* grey slate, green and grey siltstone and calcareous sandstone; minor red slate, grey graptolitic siltstone, green quartzose sandstone, grey lithic wacke and conglomerate, light grey limestone, and felsic volcanic rocks

	Ordovician	
	LOBLc	*Belle Lake Formation:* grey lithic wacke and slate; minor grey nodular calcareous siltstone
	MOLCfi	*Little Clearwater Brook Granite:* pink, fine- to medium-grained, foliated, equigranular to megacrystic granite
	MOMKfi	*McKiel Lake Granite:* pink, medium-grained, foliated, equigranular to megacrystic granite
	EOMDfv	*Meductic Group:* buff to grey rhyolite and crystal tuff interbedded with grey to black slate
	Cambrian-Ordovician	
	COWc	*Woodstock Group (formerly Miramichi Group):* olive-green to grey quartzose wacke interbedded with grey-green and maroon slate
	COTLp	*Trousers Lake Metamorphic Suite:* interlayered grey cordierite-bearing quartzofeldspathic paragneiss and sillimanite-bearing schist grading to grey, medium-grained nebulitic granitoid

Underlying rock unit designations are based on 2002 NB Geological Surveys Branch standards. Unit descriptions are based on St. Peter (1981, 1982), Lutes (1981) and Fyffe (1984).

Table 8. Legend for the Geochemical Data File (Appendix 2)

CODE	DEFINITION
Rep Stat	Replicate status
0	Routine sample site
1	First of a site duplicate pair
2	Second of a site duplicate pair
8	Laboratory (blind) duplicate
Material	Sampled material: codes as for Appendix 1 (see Table 6)
#	Instrumental neutron activation analysis (INAA)
@	Inductively-coupled plasma emission spectrometry (ICP)
$	Inductively-coupled plasma – mass spectrometry (ICP-MS)
*	Cold vapour atomic absorption spectrometry (CV-AAS)

Appendix 1. Coldstream (NTS 21 J/06):

Site Location, Site Characteristics and Geological Data

Coldstream (NTS 21 J/06): site location, site characteristics and geological data

Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
CS-H02	0	VJB	2000/06/09	21 J/06	629990	5149090	346
CS-H03	0	AAS	2000/06/01	21 J/06	630080	5146940	411
CS-H04	0	AAS	2000/06/26	21 J/06	630000	5144970	407
CS-H05	0	VJB	2000/06/26	21 J/06	630200	5143160	383
CS-H06	0	VJB	2000/07/06	21 J/06	629990	5141030	391
CS-H07	0	VJB	2001/08/30	21 J/06	630000	5139020	252
CS-H08	0	AAS	2001/08/30	21 J/06	630000	5137000	230
CS-H10	0	AAS	2001/07/13	21 J/06	630260	5133020	349
CS-H11	0	VJB	2001/09/04	21 J/06	630110	5130940	342
CS-H12	0	AAS	1998/06/29	21 J/06	630000	5129000	323
CS-H13	0	AAS	1998/07/27	21 J/06	630150	5126850	155
CS-H14	0	TJM	1998/07/27	21 J/06	630150	5125050	126
CS-H15	0	AAS	1998/07/09	21 J/06	630200	5123100	111
CS-K02	0	AAS	2000/06/09	21 J/06	631900	5149010	331
CS-K03	0	AAS	2000/07/20	21 J/06	632010	5147090	340
CS-K04	0	VJB	2000/07/20	21 J/06	632010	5144990	340
CS-K05	1	AAS	2000/07/19	21 J/06	632050	5142910	374
CS-K05	2	AAS	2000/07/19	21 J/06	632060	5142920	374
CS-K06	0	AAS	2001/08/20	21 J/06	631990	5140890	461
CS-K07	0	VJB	2001/08/20	21 J/06	631940	5139270	434
CS-K08	0	VJB	2001/08/29	21 J/06	632020	5137020	330
CS-K09-1	0	VJB	2000/08/03	21 J/06	632160	5135140	212
CS-K09-2	0	AAS	2000/08/03	21 J/06	632160	5135140	212
CS-K09-3	0	AAS	2000/08/03	21 J/06	632160	5135140	212
CS-K11	0	AAS	2000/07/05	21 J/06	632100	5131130	349
CS-K12	0	VJB	2000/07/05	21 J/06	632030	5129050	352
CS-K13	0	TJM	1998/07/08	21 J/06	631950	5126950	265
CS-K14	0	TJM	1998/07/06	21 J/06	631975	5125025	151
CS-L02	0	VJB	2000/07/14	21 J/06	633970	5149000	442
CS-L03	0	AAS	2001/08/16	21 J/06	634000	5147040	470
CS-L04	0	VJB	2001/08/16	21 J/06	634010	5144990	479
CS-L05	0	VJB	2000/07/20	21 J/06	634000	5143120	381
CS-L06	0	VJB	2000/09/01	21 J/06	633830	5140900	423
CS-L07	0	AAS	2001/08/29	21 J/06	634050	5138970	465
CS-L08	0	VJB	2001/08/23	21 J/06	634010	5136900	451
CS-L09	0	VJB	2001/08/22	21 J/06	634020	5134990	337
CS-L10	0	VJB	2001/08/31	21 J/06	633980	5133270	270
CS-L11	0	AAS	2000/08/10	21 J/06	634140	5131010	330
CS-L12a	0	VJB	2000/07/05	21 J/06	633920	5129000	343
CS-L12b	0	AAS	2000/07/05	21 J/06	633900	5129130	341
CS-L13	0	AAS	1998/07/09	21 J/06	634000	5127025	240
CS-L14	0	AAS	1998/07/06	21 J/06	634000	5125050	170
CS-M02	0	VJB	2001/07/18	21 J/06	635980	5148740	405
CS-M03	0	VJB	2001/07/04	21 J/06	635990	5146900	363
CS-M04	0	AAS	2001/07/04	21 J/06	635790	5145060	361
CS-M05	0	AAS	2001/06/28	21 J/06	635980	5142980	379
CS-M06	0	VJB	2001/07/04	21 J/06	635860	5141010	344
CS-M07	0	VJB	2001/06/27	21 J/06	636010	5139140	409
CS-M08	0	VJB	2001/07/03	21 J/06	635970	5137010	461
CS-M09a	0	AAS	2001/07/03	21 J/06	636000	5135010	430
CS-M09b	0	AAS	2001/08/09	21 J/06	635680	5134920	420
CS-M10	0	VJB	2001/08/08	21 J/06	635920	5133020	343

Coldstream (NTS 21 J/06): site location, site characteristics and geological data

Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
CS-M11	0	AAS	2000/09/11	21 J/06	636110	5131070	303
CS-M12	0	VJB	2000/08/10	21 J/06	636180	5128880	329
CS-M13	0	VJB	2000/09/05	21 J/06	635990	5127010	356
CS-M14	0	VJB	2000/09/07	21 J/06	635920	5124880	180
CS-N02	0	AAS	2001/07/18	21 J/06	637760	5148990	340
CS-N03	0	AAS	2001/07/04	21 J/06	637790	5147190	350
CS-N04	0	VJB	2001/06/01	21 J/06	637970	5144850	369
CS-N05	0	AAS	2001/06/01	21 J/06	638230	5142840	329
CS-N06a	0	VJB	2001/06/28	21 J/06	637890	5140840	380
CS-N06b	1	AAS	2001/08/09	21 J/06	638450	5141130	335
CS-N06b	2	VJB	2001/08/09	21 J/06	638440	5141140	335
CS-N07	0	AAS	2001/06/27	21 J/06	637930	5138960	443
CS-N08-1	0	AAS	2000/08/28	21 J/06	638010	5137020	408
CS-N08-2	0	AAS	2000/08/28	21 J/06	638010	5137020	408
CS-N09	0	VJB	2001/08/01	21 J/06	637990	5134940	389
CS-N10	0	VJB	2000/08/28	21 J/06	637980	5133010	385
CS-N11-1	0	VJB	2000/08/11	21 J/06	638110	5131030	295
CS-N11-2	0	AAS	2000/08/11	21 J/06	638110	5131030	295
CS-N12	0	AAS	2000/08/10	21 J/06	637800	5129160	310
CS-N13	0	AAS	2000/09/05	21 J/06	637990	5127000	305
CS-N14	0	VJB	2000/09/06	21 J/06	638000	5125030	259
CS-P01	0	VJB	2001/07/20	21 J/06	640090	5150990	351
CS-P02	0	AAS	2001/07/18	21 J/06	640130	5148920	375
CS-P03	0	VJB	2001/06/01	21 J/06	640010	5146730	350
CS-P04	0	AAS	2001/06/01	21 J/06	640140	5145250	331
CS-P05	0	AAS	2000/09/01	21 J/06	640010	5142990	308
CS-P06	0	AAS	2000/09/21	21 J/06	639930	5140810	325
CS-P07	0	AAS	2000/09/21	21 J/06	639890	5138990	301
CS-P08	0	AAS	2000/09/20	21 J/06	640030	5136960	337
CS-P09	0	AAS	2000/09/20	21 J/06	639880	5135000	320
CS-P10	0	AAS	2000/08/28	21 J/06	640020	5133050	282
CS-P11	0	VJB	2000/08/15	21 J/06	639970	5130840	298
CS-P12	0	VJB	2000/08/11	21 J/06	639850	5128980	309
CS-P13	0	AAS	2000/09/07	21 J/06	640020	5126820	315
CS-P14	0	AAS	2000/09/06	21 J/06	639910	5125020	302
CS-Q01	0	VJB	2001/07/16	21 J/06	642000	5150800	325
CS-Q02	0	VJB	2001/07/10	21 J/06	641830	5149070	301
CS-Q03	0	AAS	2001/07/19	21 J/06	642050	5146980	300
CS-Q04	0	VJB	2001/07/19	21 J/06	641790	5144970	287
CS-Q05	0	AAS	2001/06/12	21 J/06	642170	5143000	290
CS-Q06	0	VJB	2001/06/13	21 J/06	641910	5140850	287
CS-Q07	0	VJB	2001/06/12	21 J/06	642040	5138950	276
CS-Q08	0	AAS	2001/06/08	21 J/06	642080	5137250	297
CS-Q09	0	AAS	2001/06/07	21 J/06	642040	5135060	330
CS-Q10	0	AAS	2001/08/01	21 J/06	642000	5132840	260
CS-Q11	0	AAS	2000/08/15	21 J/06	641900	5130900	289
CS-Q12	0	AAS	2000/08/11	21 J/06	642120	5128970	304
CS-Q13	0	AAS	2000/08/15	21 J/06	642140	5127000	353
CS-Q14a	0	AAS	2000/08/16	21 J/06	641960	5125230	321
CS-Q14b	0	VJB	2000/09/07	21 J/06	642020	5124620	325
CS-R01	0	VJB	2000/08/09	21 J/06	644010	5151020	297
CS-R02	0	AAS	2001/07/10	21 J/06	644000	5149120	325

Coldstream (NTS 21 J/06): site location, site characteristics and geological data

Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
CS-R03	0	VJB	2001/06/29	21 J/06	643730	5146890	326
CS-R04	0	VJB	2001/06/21	21 J/06	643740	5145100	326
CS-R05	0	AAS	2001/06/13	21 J/06	643980	5143020	349
CS-R06	0	VJB	2001/06/13	21 J/06	644020	5140990	347
CS-R07	0	AAS	2001/06/11	21 J/06	644260	5139020	330
CS-R08	0	AAS	2001/06/12	21 J/06	644000	5137130	282
CS-R09	0	VJB	2001/06/07	21 J/06	644020	5134990	330
CS-R10	0	VJB	2001/06/07	21 J/06	644050	5132980	322
CS-R11	0	AAS	2000/08/17	21 J/06	644030	5130990	301
CS-R12	0	VJB	2000/08/17	21 J/06	643970	5129160	356
CS-R13	0	VJB	2000/08/15	21 J/06	644020	5126780	359
CS-R14a	0	VJB	2000/08/16	21 J/06	644060	5124940	280
CS-R14b	0	AAS	2001/08/07	21 J/06	643960	5124510	293
CS-S01	0	AAS	2001/07/11	21 J/06	646130	5150900	354
CS-S02	1	VJB	2001/06/21	21 J/06	646010	5149100	362
CS-S02	2	VJB	2001/06/21	21 J/06	646010	5149100	362
CS-S03	0	AAS	2001/06/21	21 J/06	645850	5146830	313
CS-S04	0	AAS	2001/06/14	21 J/06	646050	5144990	371
CS-S05	0	AAS	2001/06/21	21 J/06	646030	5143080	405
CS-S06	0	AAS	2001/06/13	21 J/06	646100	5140940	333
CS-S07	0	VJB	2001/06/11	21 J/06	645810	5138870	379
CS-S08a	0	AAS	2001/06/08	21 J/06	645930	5137260	306
CS-S08b	0	VJB	2001/06/11	21 J/06	646150	5137400	321
CS-S09	0	VJB	2001/06/08	21 J/06	646090	5135200	282
CS-S10	0	AAS	2001/06/08	21 J/06	645940	5132820	279
CS-S11a	0	VJB	2000/08/17	21 J/06	645990	5130890	259
CS-S11b	0	VJB	2001/08/28	21 J/06	645600	5130420	380
CS-S12	0	AAS	2000/09/11	21 J/06	646190	5128880	390
CS-S13a	0	AAS	2001/06/06	21 J/06	646110	5127150	252
CS-S13b	0	VJB	2001/06/06	21 J/06	646420	5127540	327
CS-S14a	0	AAS	2000/09/18	21 J/06	646000	5124990	245
CS-S14b	0	AAS	2001/08/28	21 J/06	646010	5124800	259
CS-T01	0	AAS	2001/08/02	21 J/06	648000	5151000	252
CS-T02	0	VJB	2001/07/11	21 J/06	647960	5149070	322
CS-T03	0	AAS	2001/06/29	21 J/06	647750	5146930	346
CS-T04	0	VJB	2001/07/20	21 J/06	648000	5144990	370
CS-T05	0	VJB	2001/06/14	21 J/06	648150	5143150	317
CS-T06	0	VJB	2001/06/14	21 J/06	648120	5140770	315
CS-T07	0	AAS	2001/06/15	21 J/06	647780	5138830	366
CS-T08	0	AAS	2001/06/11	21 J/06	648220	5136930	321
CS-T09	0	VJB	2001/06/25	21 J/06	648020	5134750	279
CS-T10	0	VJB	2001/05/30	21 J/06	648150	5133210	298
CS-T11	0	AAS	2001/05/30	21 J/06	647810	5130860	381
CS-T12	0	AAS	2001/06/20	21 J/06	647870	5128640	255
CS-T13	0	AAS	2001/06/06	21 J/06	648010	5127080	328
CS-T14	0	VJB	2000/08/25	21 J/06	647870	5124850	241
CS-V01	1	VJB	2001/08/02	21 J/06	649600	5150510	258
CS-V01	2	AAS	2001/08/02	21 J/06	649600	5150510	258
CS-V02	0	VJB	2001/08/02	21 J/06	650000	5149010	382
CS-V03	0	VJB	2001/06/29	21 J/06	649950	5147120	320
CS-V04	0	AAS	2001/06/29	21 J/06	649830	5145160	328
CS-V05	0	AAS	2001/06/14	21 J/06	650000	5143190	365

Coldstream (NTS 21 J/06): site location, site characteristics and geological data

Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
CS-V06a	0	VJB	2001/07/06	21 J/06	649960	5141000	283
CS-V06b	0	AAS	2001/07/06	21 J/06	649780	5141480	285
CS-V07	0	VJB	2001/06/12	21 J/06	650120	5138870	308
CS-V08-1	0	AAS	2001/06/15	21 J/06	650050	5137190	329
CS-V08-2	0	AAS	2001/06/15	21 J/06	650050	5137190	329
CS-V09	0	AAS	2001/06/25	21 J/06	650270	5134970	345
CS-V10	0	VJB	2001/06/18	21 J/06	650080	5133260	400
CS-V11-1	0	VJB	2001/06/18	21 J/06	649980	5130870	308
CS-V11-2	0	VJB	2001/06/18	21 J/06	649980	5130870	308
CS-V12	0	AAS	2001/06/20	21 J/06	650010	5129270	270
CS-V13	0	AAS	2001/06/19	21 J/06	650050	5126930	323
CS-V14	0	AAS	2000/08/25	21 J/06	649830	5125060	270
CS-W01	0	AAS	2001/08/23	21 J/06	651990	5150920	251
CS-W02	0	VJB	2001/08/03	21 J/06	651780	5149020	254
CS-W03	0	AAS	2001/07/11	21 J/06	651940	5147260	262
CS-W04	0	VJB	2001/07/12	21 J/06	652400	5145360	280
CS-W04.5	0	AAS	2001/08/23	21 J/06	652250	5144250	312
CS-W05	0	VJB	2001/07/06	21 J/06	652040	5142670	386
CS-W06	0	AAS	2001/07/12	21 J/06	652180	5140770	298
CS-W07	0	VJB	2001/07/12	21 J/06	651850	5139050	292
CS-W08	0	AAS	2001/06/26	21 J/06	651720	5136960	281
CS-W09	0	VJB	2001/06/26	21 J/06	651950	5134960	290
CS-W10a	0	AAS	2001/06/18	21 J/06	651840	5132810	307
CS-W10b	0	VJB	2001/08/15	21 J/06	651560	5133220	301
CS-W11	0	VJB	2001/06/18	21 J/06	651990	5130970	294
CS-W12	0	VJB	2001/06/20	21 J/06	652010	5128990	211
CS-W13	0	VJB	2001/06/19	21 J/06	651870	5126870	241
CS-W14	0	AAS	2000/09/18	21 J/06	652030	5125060	220
CS-X12	0	AAS	2001/06/26	21 J/06	654080	5129080	193
CS-X13	0	AAS	2001/08/03	21 J/06	653920	5126570	201
CS-X14	0	VJB	2001/06/20	21 J/06	653720	5124940	222

Coldstream (NTS 21 J/06): site location, site characteristics and geological data

Sample ID	Material	Compactness	Drainage	Depth to Base (cm)	Bedrock at Base	Stone Coverage	Colour	Gravel % est.	Underlying Rock Unit
CS-H02	bT	C	W	59	N	1/1	2.5 Y 5/4	70	DWc
CS-H03	bT	C/vC	P	76	N	1/1	2.5 Y 4/4	50	DWmv
CS-H04	bT	C	M	98	N	1/1	2.5 Y 4/4	70	DWc
CS-H05	bT	C/vC	W	80	N	1/1	7.5 YR 4/4	40	CCIc
CS-H06	bT	vC	W	65	N	1/1	7.5 YR 4/3	20	DWc
CS-H07	bT	C/vC	M	60	N	1/1	7.5 YR 4/3	20	CCIc
CS-H08	bT	C	W	89	N	1/1	5 YR 3/4	70	CCIc
CS-H10	bT	C	W	88	N	1/1	7.5 YR 4/4	70	CMOc
CS-H11	bT	C	W	65	N	1/1	10 YR 5/4	50	CMOc
CS-H12	bT	mC	M	78	N	1/1	10 YR 5/6	70	CMOc
CS-H13	bT	C	M	117	N	1/1	2.5 YR 4/4	30	CCIc
CS-H14	bT	mC	I	59	N	1/1	2.5 YR 4/4	20	CCIc
CS-H15	bT	mC	M	73	N	1/1	2.5 YR 4/4	20	CCIc
CS-K02	bT	C	W	75	N	1/1	2.5 Y 5/6	60	DWmv
CS-K03	bT	mC/C	R	85	N	1/1	10 YR 3/3	70	CCIc
CS-K04	bT	C	W	59	N	1/1	2.5 Y 5/4	30	CCIc
CS-K05	bT	vC/eC	I	78	N	1/1	2.5 Y 4/4	80	CCIc
CS-K05	bT	C	I	91	N	1/1	10 YR 5/4	30	CCIc
CS-K06	bT	C	W	105	N	1/1	5 YR 4/4	80	Dmi/DCGfv
CS-K07	bT	C	W	96	N	1/1	7.5 YR 4/3	50	DCGfv
CS-K08	bT	C	W	86	N	1/1	10 YR 5/3	60	DCGc/DCGfv
CS-K09-1	GL	mC	R	69	N	1/1	10 YR 3/6	10	DCGc
CS-K09-2	GF	mC	R	86	N	n/a	10 YR 3/4	30	DCGc
CS-K09-3	bT	C/eC	R	118	N	n/a	10 YR 3/4	80	DCGc
CS-K11	bT	C	M	89	N	1/1	7.5 YR 4/4	50	CMOc
CS-K12	bT	C	W	90	N	1/1	10 YR 5/4	40	CMOc
CS-K13	bT	C	M	71	N	1/1	2.5 YR 3/4	<10	CMOc
CS-K14	bT	mC	I	56	N	1/1	2.5 YR 4/4	<1	CCIc
CS-L02	bT	C/vC	W	72	P	2/2	10 YR 5/4	60	DCGfv
CS-L03	bT	mC/C	W	91	N	3/2	10 YR 5/4	70	DCGfv
CS-L04	bT	mC	W	86	N	1/1	10 YR 5/3	60	DCGfv
CS-L05	bT	C	W	75	N	1/1	10 YR 5/4	70	DCGfv
CS-L06	bT	C	W	63	N	1/1	10 YR 3/3	70	DCGfv
CS-L07	bT	C	W	89	N	1/1	10 YR 5/4	70	DCGfv
CS-L08	bT	C	W	68	N	3/1	10 YR 5/3	50	DBLmi
CS-L09	bT	C	M	74	N	1/1	10 YR 4/3	<5	DBLmi/DBLfi
CS-L10	bT	vC/eC	W	70	N	1/1	7.5 YR 4/3	60	DBLfi/DBLmi
CS-L11	bT	C	M	87	Y	1/1	5 YR 5/4	30	CMOc
CS-L12a	bT	mC	R	80	N	2/1	7.5 YR 4/4	70	CMOc
CS-L12b	bT	C/vC	I	60+	N	2/1	5 YR 4/4	10	CMOc
CS-L13	bT	mC	M	91	N	2/1	7.5 YR 4/4	70	CCIc
CS-L14	bT	mC	I	67	N	1/1	2.5 YR 4/4	<1	CCIc
CS-M02	bT	vC/eC	W	89	N	2/1	10 YR 5/4	60	DCGfv
CS-M03	bT	mC/C	W	77	N	1/1	10 YR 4/3	60	DBLmi
CS-M04	bT	mC/C	W	80	N	1/1	2.5 Y 4/4	60	DBLmi
CS-M05	bT	C	W	90	N	2/1	10 YR 4/4	70	DBLmi
CS-M06	bT	mC	W	86	N	1/1	10 YR 4/3	50	DBLmi
CS-M07	bT	C	W	77	Y	2/1	10 YR 4/4	60	DBLmi
CS-M08	bT	vC/eC	W	70	N	1/1	10 YR 4/3	70	DBLmi
CS-M09a	bT	mC/C	W	90	N	3/2	7.5 YR 2.5/3	80	DBLfi
CS-M09b	bT	C/vC	W	109	N	2/1	2.5 Y 5/4	80	DBLmi
CS-M10	bT	mC/C	W	70	N	1/1	10 YR 4/3	70	DBLmi

Coldstream (NTS 21 J/06): site location, site characteristics and geological data

Sample ID	Material	Compactness	Drainage	Depth to Base (cm)	Bedrock at Base	Stone Coverage	Colour	Gravel % est.	Underlying Rock Unit
CS-M11	bT	C	I	69	N	1/1	7.5 YR 4/3	70	DCGc
CS-M12	bT	C	R	97	N	1/1	5 YR 4/3	70	CMOc
CS-M13	bT	C	W	65	N	1/1	7.5 YR 4/3	50	CMOc
CS-M14	bT	C	R	91	N	1/1	7.5 YR 4/4	50	DBLmi
CS-N02	bT	mC	W	84	Y	1/1	10 YR 4/3	80	DCGc
CS-N03	bT	mC/C	W	89	N	2/1	2.5 Y 5/4	40	DBLmi
CS-N04	bT	C	R	93	N	2/1	2.5 Y 4/4	70	DBLmi
CS-N05	bT	mC/C	I	96	N	1/1	10 YR 4/3	50	DBLmi
CS-N06a	bT	C	W	71	N	2/1	10 YR 3/3	20	DBLmi
CS-N06b	bT	vC	M	77	N	2/1	2.5 Y 4/4	20	DBLmi
CS-N06b	bT	vC	M	60	N	2/1	2.5 Y 4/4	20	DBLmi
CS-N07	bT	C	W	85	N	2/1	2.5 Y 3/3	70	DBLmi
CS-N08-1	bT	C	W	60	N	4/2	10 YR 3/4	30	DBLmi
CS-N08-2	bT	C	W	85	N	n/a	10 YR 3/3	70	DBLmi
CS-N09	bT	C/vC	W	84	N	3/1	10 YR 5/3	30	DBLmi
CS-N10	bT	C	W	71	N	3/1	10 YR 4/4	20	DBLfi/DBLmi
CS-N11-1	bT	mC/C	R	92	N	2/1	10 YR 3/3	50	DBLmi
CS-N11-2	bT	C	R	127	N	n/a	10 YR 4/3	50	DBLmi
CS-N12	bT	vC	W	95	N	3/2	10 YR 4/4	70	Cmv/CCIc
CS-N13	bT	C	M	77	N	1/1	7.5 YR 3/4	20	CMOc
CS-N14	bT	C	M	60	N	1/1	7.5 YR 4/4	30	DBLmi
CS-P01	bT	C	W	80	N	3/2	10 YR 4/3	70	COTLp
CS-P02	bT	mC/C	R	91	N	1/1	2.5 Y 5/3	70	OLCfi
CS-P03	bT	C/vC	W	67	N	3/2	10 YR 5/4	60	OLCfi/COTLp
CS-P04	bT	C	W	83	N	1/1	2.5 Y 5/4	60	COTLp
CS-P05	bT	C	M	96	N	1/1	2.5 Y 5/6	30	DBLmi/DNWfib
CS-P06	bT	vC	W	79	N	1/1	10 YR 5/4	30	DNWfib
CS-P07	bT	vC	M	88	N	2/1	10 YR 5/3	40	DNWfib
CS-P08	bT	vC	W	76	N	2/1	10 YR 5/4	30	DNWfib
CS-P09	bT	C	W	83	N	2/1	2.5 Y 5/3	80	DBLmi
CS-P10	bT	vC	W	92	N	1/1	10 YR 4/4	60	DBLmi
CS-P11	bT	C/vC	R	83	N	2/1	10 YR 4/2	60	DBLmi
CS-P12	bT	C/vC	I	74	N	2/1	10 YR 4/3	60	DBLmi
CS-P13	bT	mC	P	82	N	1/1	5 YR 4/4	5	Cmv
CS-P14	bT	C	W	81	N	2/2	10 YR 3/4	70	DBLmi
CS-Q01	bT	vC/eC	W	62	P	2/1	10 YR 5/4	50	COTLp
CS-Q02	bT	mC	W	72	Y	1/1	10 YR 5/4	50	COTLp
CS-Q03	bT	mC/vC	W	74	N	1/1	2.5 Y 5/4	50	COTLp/DNWfib
CS-Q04	bT	C	W	86	N	1/1	10 YR 5/4	20	DNWfib
CS-Q05	bT	C	W	78	N	1/1	2.5 Y 5/4	40	DNWfib
CS-Q06	bT	mC/vC	W	73	N	1/1	10 YR 5/3	60	DNWfib
CS-Q07	bT	C	W	71	N	1/1	10 YR 5/4	30	DNWfib
CS-Q08	bT	mC	W	80	N	1/1	2.5 Y 5/4	10	DNWfib
CS-Q09	mT	mC	R	104	N	2/1	10 YR 3/4	50	DNWfib
CS-Q10	bT	C/vC	W	107	N	1/1	10 YR 5/4	40	DBLmi
CS-Q11	bT	C/vC	W	97	N	1/1	2.5 Y 4/4	70	DNWfib
CS-Q12	aT	mC/mL	R	122	N	1/1	2.5 Y 4/4	50	DNWfib
CS-Q13	bT	vC	W	83	N	1/1	10 YR 4/4	30	DNWfib
CS-Q14a	aT	mC	R	117	N	3/1	7.5 YR 4/6	80	DNWfib
CS-Q14b	bT	C	W	81	N	1/1	7.5 YR 4/4	30	DBLmi
CS-R01	bT	mC/C	W	74	N	1/1	2.5 Y 5/4	30	COTLp
CS-R02	bT	vC	W	91	N	1/1	2.5 Y 5/4	60	COTLp

Coldstream (NTS 21 J/06): site location, site characteristics and geological data

Sample ID	Material	Compactness	Drainage	Depth to Base (cm)	Bedrock at Base	Stone Coverage	Colour	Gravel % est.	Underlying Rock Unit
CS-R03	bT	C	W	82	N	2/2	2.5 Y 5/3	50	DNWfib
CS-R04	bT	C	W	130	N	2/2	10 YR 5/4	60	DNWfib
CS-R05	bT	C	W	88	N	1/1	10 YR 5/4	<1	DNWfib
CS-R06	bT	C/vC	W	71	N	1/1	10 YR 5/4	30	DNWfib
CS-R07	bT	mC/C	P	92	N	3/3	2.5 Y 5/4	10	DNWfib
CS-R08	bT	vC	R	121	N	1/1	2.5 Y 4/4	60	DNWfib
CS-R09	bT	C	W	72	N	2/1	10 YR 4/3	30	DNWfib
CS-R10	bT	C	R	78	N	4/3	10 YR 5/4	30	DNWfib
CS-R11	aT	mL	R	96	N	3/3	2.5 Y 5/4	70	DNWfib
CS-R12	aT	mC	R	128	N	3/3	10 YR 5/4	70	DNWfib
CS-R13	bT	vC	W	80	N	2/2	10 YR 5/4	20	DNWfib
CS-R14a	aT	mL/mC	R	92	N	3/2	7.5 YR 5/4	20	DNWfib
CS-R14b	bT	C	W	78	N	1/1	5 YR 4/4	20	DNWfib
CS-S01	bT	C	W	101	N	4/3	10 YR 5/4	70	COTLp
CS-S02	bT	C/vC	W	83	N	2/1	10 YR 5/4	60	DNWfim
CS-S02	bT	C/vC	W	83	N	2/1	10 YR 5/4	60	DNWfim
CS-S03	bT	C	W	86	N	2/1	2.5 Y 4/4	60	DNWfib/DNWfim
CS-S04	bT	C	W	65	Y	3/2	10 YR 5/4	70	DNWfib
CS-S05	bT	C	W	90	N	1/1	2.5 Y 5/4	10	DNWfib
CS-S06	bT	C	W	93	N	3/2	10 YR 4/6	<5	DNWfib
CS-S07	bT	vC	W	69	N	4/3	10 YR 5/4	30	DNWfib
CS-S08a	aT	K	R	113	N	3/2	2.5 Y 4/4	70	DNWfib
CS-S08b	bT	C	W	80	N	2/2	10 YR 5/4	30	DNWfib
CS-S09	bT	mC/C	W	74	N	3/1	10 YR 5/3	10	DHPii
CS-S10	bT	mC/C	W	87	N	3/2	2.5 Y 5/4	50	DHPii
CS-S11a	aT	vL	R	126	N	2/2	2.5 Y 5/4	10	DNWfib
CS-S11b	bT	C	W	82	N	3/2	10 YR 5/3	30	DNWfib
CS-S12	bT	vC	W	83	N	1/2	2.5 Y 5/3	10	DNWfib
CS-S13a	aT	L/mC	W	90	N	3/2	10 YR 4/4	70/<5	DNWfib
CS-S13b	bT	mC/C	W	66	N	2/1	10 YR 3/3	10	DNWfib
CS-S14a	aT	L/mL	R	106	N	1/2	10 YR 5/4	40	DNWfib
CS-S14b	bT	C/vC	W	89	N	1/2	10 YR 5/4	10	DNWfib
CS-T01	bT	mC/C	W	86	N	1/1	2.5 Y 5/3	20	OMKfi
CS-T02	bT	C	W	92	N	2/1	10 YR 5/3	20	DNWfim
CS-T03	bT	vC	W	89	N	1/1	2.5 Y 5/4	20	DNWfim
CS-T04	bT	C	W	70	N	1/1	10 YR 5/4	70	DNWfim
CS-T05	bT	mC	W	70	N	3/2	10 YR 5/4	<5	DNWfim
CS-T06	bT	C	W	81	N	1/1	10 YR 5/4	20	DNWfib
CS-T07	bT	mC/C	W	79	N	1/1	10 YR 4/3	40	DNWfib
CS-T08	bT	C/vC	I	94	N	2/1	2.5 Y 5/4	30	DHPii
CS-T09	aT	mL/mC	R	94	N	1/1	2.5 Y 5/3	60	DHPii
CS-T10	bT	C	P	67	N	1/1	10 YR 5/4	10	DHPii
CS-T11	bT	C	W	90	N	3/2	2.5 Y 4/4	70	DHPii
CS-T12	bT	mC/C	W	101	N	4/3	2.5 Y 5/4	50	DHPii
CS-T13	bT	C/vC	M	91	N	3/2	10 YR 3/4	70	DHPii
CS-T14	bT	C	W	86	N	3/3	10 YR 5/4	40	DHPii
CS-V01	dT	mC	R	116	N	2/1	10 YR 4/6	5	DNWfim
CS-V01	dT	mC	R	116	N	2/1	10 YR 4/6	5	DNWfim
CS-V02	bT	C	W	72	Y	1/1	10 YR 5/3	40	DNWfim
CS-V03	bT	vC	W	67	N	1/1	10 YR 5/4	30	DNWfim
CS-V04	bT	mC/C	I	90	N	1/1	2.5 Y 5/4	15	DNWfim
CS-V05	bT	C	W	81	N	2/1	2.5 Y 5/4	50	DNWfim

Coldstream (NTS 21 J/06): site location, site characteristics and geological data

Sample ID	Material	Compactness	Drainage	Depth to Base (cm)	Bedrock at Base	Stone Coverage	Colour	Gravel % est.	Underlying Rock Unit
CS-V06a	aT	mL	R	82	N	1/1	2.5 Y 4/4	30	DNWfib
CS-V06b	bT	C/vC	W	86	N	1/1	2.5 Y 5/4	30	DNWfib
CS-V07	bT	C	W	83	N	3/2	10 YR 5/4	50	DNWfib
CS-V08-1	aT	mL/mC	W	85	N	1/1	2.5 Y 5/3	60	DHPii
CS-V08-2	bT	C/vC	M	109	N	n/a	2.5 Y 5/4	30	DHPii
CS-V09	bT	mC	W	116	N	2/1	2.5 Y 5/4	50	COWc
CS-V10	bT	C	W	86	N	1/1	2.5 Y 4/2	40	OMDfv
CS-V11-1	aT	mL/mC	W	104	N	1/1	2.5 Y 3/3	60	OMDfv
CS-V11-2	bT	C	W	124	N	n/a	2.5 Y 5/3	40	OMDfv
CS-V12	bT	C	W	85	N	3/2	2.5 Y 5/3	20	COWc
CS-V13	bT	C/vC	W	127	N	1/1	2.5 Y 5/4	50	OBLc
CS-V14	bT	vC	R	106	N	1/1	10 YR 4/3	70	OMDfv
CS-W01	bT	C	I	87	N	1/1	10 YR 5/4	20	DNWfim
CS-W02	bT	mC/C	W	74	N	1/1	2.5 Y 5/4	30	DNWfim
CS-W03	bT	C	W	83	N	1/1	10 YR 5/4	20	DNWfim
CS-W04	bT	C/vC	W	82	N	1/1	10 YR 5/4	30	DNWfib
CS-W04.5	bT	C/vC	W	119	N	1/2	2.5 Y 5/4	40	DNWfib/COWc
CS-W05	bT	eC	M	71	N	1/1	10 YR 5/4	20	COWc
CS-W06	bT	mC/C	W	82	N	1/1	2.5 Y 5/4	70	COWc
CS-W07	bT	C	W	73	N	2/1	2.5 Y 5/4	60	COWc/OMDfv
CS-W08	bT	C	W	91	N	2/1	2.5 Y 5/3	60	OMDfv
CS-W09	bT	C/vC	M	69	N	1/1	10 YR 5/4	15	OBLc
CS-W10a	aT	L/mL	R	114	N	1/1	5 Y 4/3	90	OBLc
CS-W10b	bT	C	W	90	N	1/1	2.5 Y 4/4	40	OBLc
CS-W11	bT	C/vC	W	63	N	1/1	2.5 Y 5/3	20	OBLc
CS-W12	bT	mC/C	W	93	N	2/1	10 YR 4/3	20	DHfib
CS-W13	bT	C	W	78	N	1/2	10 YR 5/3	60	DHfib
CS-W14	bT	vC	W	102	N	1/1	10 YR 5/3	60	DHfim
CS-X12	bT	C/vC	M	90	N	1/1	2.5 Y 5/3	20	DHfib
CS-X13	bT	C	W	83	N	1/1	2.5 Y 5/4	20	DHfib
CS-X14	bT	C	W	107	N	1/1	10 YR 5/4	30	DHfib

Appendix 2. Coldstream (NTS 21 J/06):

Analytical Data

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	Al @ %	As # ppm	Au # ppb	Ba # ppm	Be @ ppm	Bi $ ppm	Br # ppm	Ca @ %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
CS-H02	0	bT	0.3	3.84	28.8	3	340	1	0.2	8.3	0.13	0.3	63	11	120	14
CS-H03	0	bT	0.3	2.70	32.1	3	320	1	0.2	3.6	0.16	<0.3	74	17	116	10
CS-H04	0	bT	0.4	2.88	25.8	2	290	1	0.1	6.6	0.21	<0.3	69	14	102	7
CS-H05	0	bT	<0.3	4.79	16.8	<2	290	1	0.2	2.3	0.09	<0.3	77	17	115	7
CS-H06	0	bT	<0.3	7.41	13.4	<2	380	2	0.3	2.9	0.35	<0.3	76	19	123	9
CS-H07	0	bT	0.7	3.82	26.5	<2	430	<1	0.8	12.5	0.07	<0.3	72	18	108	9
CS-H08	0	bT	1.5	6.49	116	<2	440	1	0.8	9.6	0.43	<0.3	95	21	127	61
CS-H10	0	bT	0.8	3.22	26.4	6	250	<1	0.3	8.7	0.08	<0.3	72	16	109	6
CS-H11	0	bT	0.8	3.60	11.7	<2	210	<1	0.2	10.6	0.04	<0.3	94	19	89	4
CS-H11	8	bT	1.1	4.93	8.7	<2	200	<1	0.3	11.1	0.05	<0.3	99	22	81	4
CS-H12	0	bT	0.6	7.81	9.9	<2	390	2		11.5	0.01	<0.5	97	11	151	12
CS-H13	0	bT	<0.4	7.24	98.7	<2	470	2		<0.5	0.18	<0.5	119	19	128	56
CS-H13	8	bT	<0.3	5.72	91.0	3	430	2	0.2	<0.5	0.20	<0.3	96	19	112	49
CS-H14	0	bT?	<0.4	7.94	28.9	46	250	3		<0.5	0.33	<0.5	53	14	108	33
CS-H14	8	bT?	<0.3	6.47	28.7	40	350	3	0.3	2.3	0.38	<0.3	43	15	104	32
CS-H15	0	bT	0.4	7.77	32.7	<2	440	2		<0.5	0.19	<0.5	122	15	102	16
CS-H15	8	bT	0.3	5.70	32.5	<2	340	2	0.3	<0.5	0.23	<0.3	104	16	101	15
CS-K02	0	bT	0.4	2.70	50.9	<2	380	2	0.3	6.2	0.17	0.7	80	22	123	15
CS-K03	0	bT	0.5	2.74	55.4	<2	340	2	0.3	20.4	0.25	0.3	87	20	137	24
CS-K04	0	bT	0.3	2.90	32.9	<2	240	1	0.2	12.3	0.20	<0.3	68	15	99	10
CS-K05	1	bT	0.4	2.80	41.2	<2	340	1	0.3	12.0	0.20	<0.3	69	18	113	13
CS-K05	2	bT	0.4	9.06	37.2	8	470	2	0.2	0.9	0.30	<0.3	86	17	110	12
CS-K05	2,8	bT	0.8	8.78	39.3	<2	460	1	0.3	<0.5	0.21	<0.3	77	15	95	13
CS-K06	0	bT	1.1	6.93	163	8	260	1	0.4	5.9	0.11	<0.3	142	8	61	10
CS-K07	0	bT	0.8	13.23	20.3	<2	320	1	0.3	<0.5	0.24	<0.3	120	12	77	9
CS-K08	0	bT	0.9	5.17	15.7	<2	260	<1	0.3	3.0	0.26	<0.3	72	10	71	5
CS-K09-1	0	GL	<0.3	3.02	30.7	<2	300	1	0.2	12.1	0.18	<0.3	74	13	100	8
CS-K09-2	0	GF	0.4	3.07	49.2	<2	250	2	0.3	30.6	0.15	<0.3	90	18	122	10
CS-K09-3	0	bT	<0.3	3.71	23.3	3	290	2	0.3	9.6	0.43	<0.3	99	14	91	9
CS-K11	0	bT	0.4	4.80	44.0	<2	270	2	0.4	6.9	0.05	<0.3	82	17	129	24
CS-K12	0	bT	0.3	2.84	8.4	4	220	1	0.2	8.3	0.13	<0.3	73	12	93	4
CS-K13	0	bT	<0.4	8.90	10.1	<2	200	2		<0.5	0.05	<0.5	101	11	178	7
CS-K14	0	bT	0.4	8.08	32.6	5	480	3		1.8	0.34	<0.5	69	20	93	18
CS-L02	0	bT	0.4	2.62	14.8	<2	240	1	0.2	9.9	0.23	<0.3	75	16	105	7
CS-L02	8	bT	0.3	2.10	13.5	<2	360	1	0.2	9.5	0.21	0.6	73	14	100	7
CS-L03	0	bT	1.3	4.64	259	7	350	1	0.3	5.8	0.32	<0.3	67	13	85	14
CS-L04	0	bT	1.0	4.39	17.1	<2	280	<1	0.2	5.9	0.27	<0.3	87	11	83	4
CS-L05	0	bT	<0.3	3.31	19.3	<2	370	1	0.2	6.2	0.20	<0.3	93	15	91	7
CS-L06	0	bT	0.4	3.27	15.5	<2	250	1	0.2	18.8	0.37	<0.3	78	12	92	5
CS-L07	0	bT	1.1	4.55	15	4	360	<1	0.3	14.9	0.32	<0.3	104	14	83	5
CS-L08	0	bT	0.8	3.78	8.8	<2	360	<1	0.3	10.9	0.31	<0.3	59	12	70	4
CS-L09	0	bT	1.1	6.21	15	3	280	<1	0.2	2.5	0.44	<0.3	82	14	87	3
CS-L10	0	bT	1.1	14.08	33.6	<2	500	<1	0.2	9.0	0.85	<0.3	89	18	135	7
CS-L11	0	bT	0.5	5.84	17.6	3	300	2	0.4	3.2	0.03	<0.3	100	18	150	11
CS-L12a	0	bT	<0.3	4.34	19.4	<2	300	1	0.3	21.0	0.11	<0.3	74	13	110	6
CS-L12b	0	bT	<0.3	4.58	8.1	<2	220	1	0.2	1.4	0.04	<0.3	66	10	110	6
CS-L13	0	bT	0.6	6.71	15.8	<2	280	<2		23.2	0.07	<0.5	110	16	132	8

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	Al @ %	As # ppm	Au # ppb	Ba # ppm	Be @ ppm	Bi $ ppm	Br # ppm	Ca @ %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
CS-L14	0	bT	<0.4	8.16	29.1	<2	360	3		<0.5	0.12	<0.5	93	13	71	24
CS-L14	8	bT	<0.3	7.32	32.3	<2	390	3	0.6	1.8	0.15	<0.3	78	14	67	19
CS-M02	0	bT	1.2	10.52	38.3	<2	340	<1	0.2	7.7	0.78	<0.3	99	14	76	4
CS-M03	0	bT	1.4	11.88	19.4	<2	320	<1	0.2	7.3	1.08	<0.3	81	13	89	5
CS-M04	0	bT	0.8	6.64	20.7	<2	360	1	0.2	21.1	0.50	<0.3	82	12	95	4
CS-M05	0	bT	0.9	12.75	16.4	<2	270	<1	0.3	12.3	0.88	<0.3	85	17	103	7
CS-M06	0	bT	0.8	4.46	17.3	3	240	<1	0.2	17.8	0.32	<0.3	80	14	94	4
CS-M07	0	bT	0.6	4.55	12.1	<2	480	<1	1.1	21.2	0.34	<0.3	116	19	96	8
CS-M08	0	bT	0.9	6.57	12.6	<2	310	<1	0.6	45.2	0.66	<0.3	88	16	101	4
CS-M09a	0	bT	0.4	8.30	6.1	<2	450	2	0.4	113	0.26	<0.3	67	9	51	3
CS-M09b	0	bT	0.9	8.90	11.6	7	420	<1	0.2	4.0	0.49	<0.3	92	12	91	5
CS-M10	0	bT	0.5	7.33	13.4	<2	240	<1	0.2	30.7	0.47	<0.3	72	31	114	4
CS-M11	0	bT	<0.3	2.99	16.4	<2	360	1	0.2	<0.5	0.65	<0.3	82	20	120	6
CS-M12	0	bT	<0.3	3.43	9.9	3	240	1	0.3	6.9	0.03	<0.3	84	17	100	8
CS-M13	0	bT	<0.3	3.43	5.6	<2	350	2	0.3	3.0	<0.01	<0.3	100	17	120	8
CS-M14	0	bT	<0.3	2.88	24.9	<2	250	1	0.3	6.4	0.08	<0.3	70	15	97	10
CS-N02	0	bT	0.5	9.81	23.1	<2	470	<1	0.8	23.3	0.93	<0.3	109	28	134	7
CS-N02	8	bT	1.0	16.61	28.5	<2	310	<1	0.3	23.6	1.37	<0.3	111	28	129	7
CS-N03	0	bT	0.6	9.07	18.7	<2	420	<1	0.4	7.8	0.51	<0.3	83	17	99	6
CS-N04	1	bT	0.5	12.33	10.0	3	230	<1	0.3	37.7	1.59	<0.3	71	37	109	4
CS-N04	2	bT	0.5	6.38	8.7	4	210	<1	0.3	24.0	1.50	<0.3	74	36	109	3
CS-N05	0	bT	0.7	10.52	12.3	<2	350	<1	0.4	12.5	1.50	<0.3	72	25	108	5
CS-N06a	0	bT	0.5	8.51	11.7	6	450	<1	0.3	70.7	1.02	<0.3	54	33	85	4
CS-N06b	1	bT	0.7	6.52	22.8	<2	430	<1	0.3	<0.5	0.87	<0.3	71	27	138	9
CS-N06b	2	bT	0.7	7.88	22.2	<2	510	<1	0.6	<0.5	0.33	<0.3	64	19	112	8
CS-N07	0	bT	0.3	6.75	59.2	<2	260	<1	0.4	17.2	0.90	<0.3	177	59	68	30
CS-N08-1	0	bT	<0.3	3.23	15.4	<2	350	2	0.2	53.8	0.35	<0.3	130	25	120	7
CS-N08-2	0	bT	<0.3	9.84	20.6	4	370	2	0.2	68.6	1.10	<0.3	190	21	110	5
CS-N09	0	bT	0.7	5.05	7.0	<2	370	<1	0.3	18.5	0.63	<0.3	98	21	113	6
CS-N10	0	bT	0.4	3.00	8.7	4	250	1	0.2	31.6	0.37	<0.3	79	11	74	4
CS-N11-1	0	bT	<0.3	5.52	9.1	<2	280	1	0.1	12.5	2.10	<0.3	63	37	100	4
CS-N11-2	0	bT	<0.3	3.99	10.0	3	340	1	0.1	3.3	1.45	<0.3	67	35	110	4
CS-N12	0	bT	<0.3	3.13	23.6	<2	440	2	0.4	16.7	0.60	<0.3	88	32	130	11
CS-N12	8	bT	0.7	5.76	25.7	<2	480	<1	0.5	19.5	0.63	<0.3	88	32	130	10
CS-N13	0	bT	0.4	3.38	17.6	6	280	2	0.4	3.9	0.08	<0.3	80	13	78	9
CS-N14	0	bT	0.3	4.21	12.1	<2	320	2	0.3	2.3	0.03	<0.3	79	16	100	10
CS-P01	0	bT	1.0	5.47	12.3	7	460	<1	0.5	11.6	0.35	<0.3	72	11	89	6
CS-P02	0	bT	0.8	3.91	16.7	<2	380	<1	0.3	28.4	0.20	<0.3	75	21	123	8
CS-P03	0	bT	0.8	4.98	22.0	<2	360	1	0.4	15.1	0.33	<0.3	100	16	96	11
CS-P04	0	bT	0.7	5.71	33.9	<2	350	<1	0.4	9.2	0.45	<0.3	91	19	101	8
CS-P05	0	bT	<0.3	3.64	22.1	<2	350	2	0.3	8.7	0.65	<0.3	93	20	110	7
CS-P06	0	bT	<0.3	3.32	20.9	<2	280	3	1.3	9.5	0.51	<0.3	200	17	74	12
CS-P06	8	bT	1.0	5.58	15.7	4	250	2	1.5	7.5	0.48	<0.3	181	17	75	13
CS-P07	0	bT	<0.3	3.72	14.1	9	370	1	0.2	8.9	0.93	<0.3	98	22	110	5
CS-P08	0	bT	<0.3	4.32	20.0	<2	370	3	1.0	6.1	0.88	<0.3	182	13	64	13
CS-P08	8	bT	0.9	5.26	19.4	<2	450	3	1.1	4.0	0.71	<0.3	189	14	60	11
CS-P09	0	bT	<0.3	3.76	10.2	3	290	1	0.2	14.5	1.21	<0.3	75	23	115	4

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	Al @ %	As # ppm	Au # ppb	Ba # ppm	Be @ ppm	Bi $ ppm	Br # ppm	Ca @ %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
CS-P10	0	bT	<0.3	3.73	8.1	<2	390	1	0.3	8.0	1.29	<0.3	80	21	127	5
CS-P11	0	bT	<0.3	4.45	9.1	<2	190	1	0.2	19.2	2.35	<0.3	55	21	110	3
CS-P12	0	bT	<0.3	5.13	9.7	<2	220	1	0.2	10.6	1.51	<0.3	74	24	106	6
CS-P13	0	bT	0.4	4.13	20.0	3	410	2	0.5	<0.5	1.06	<0.3	81	18	40	14
CS-P14	0	bT	<0.3	6.65	8.7	4	270	1	0.2	9.9	0.52	0.6	68	29	138	7
CS-Q01	0	bT	0.7	5.15	60.6	<2	510	2	0.7	9.1	0.33	<0.3	112	25	96	24
CS-Q02	0	bT	1.0	5.43	30.0	<2	510	1	0.6	8.2	0.45	<0.3	128	14	70	14
CS-Q03	0	bT	0.8	4.71	21.5	<2	480	1	0.7	7.6	0.34	<0.3	88	19	89	10
CS-Q04	0	bT	0.9	4.90	13.7	2	350	<1	0.6	17.0	0.24	<0.3	85	17	84	8
CS-Q05	0	bT	0.8	5.40	14.1	3	460	2	0.7	2.5	0.35	<0.3	105	14	70	11
CS-Q05	8	bT	0.8	4.83	19.5	<2	560	2	0.7	<0.5	0.34	<0.3	118	17	84	12
CS-Q06	0	bT	0.7	5.29	25.0	<2	380	1	0.4	7.6	0.38	<0.3	95	18	84	9
CS-Q07	0	bT	0.5	4.68	33.0	<2	410	1	0.7	12.0	0.21	<0.3	146	20	104	12
CS-Q08	0	bT	0.8	5.67	11.2	<2	430	2	0.8	9.4	0.54	<0.3	133	13	69	6
CS-Q09	0	mT	1.0	5.43	10.6	<2	380	1	0.4	9.0	0.67	<0.3	149	14	89	5
CS-Q10	0	bT	0.7	5.89	12.1	<2	510	1	0.5	<0.5	0.65	<0.3	125	20	93	7
CS-Q11	0	bT	<0.3	5.31	12.8	<2	250	2	0.3	9.6	2.68	<0.3	81	40	140	7
CS-Q11	8	bT	<0.3	4.58	12.3	3	180	1	0.3	9.8	2.45	<0.3	78	35	130	6
CS-Q12	0	aT	<0.3	4.78	6.8	<2	330	2	0.3	10.1	2.67	0.5	129	23	177	5
CS-Q13	0	bT	<0.3	4.71	6.0	<2	<50	5	0.9	5.3	0.75	<0.3	85	13	66	9
CS-Q13	8	bT	0.6	5.17	4.4	<2	190	5	0.8	5.2	0.59	<0.3	83	12	57	7
CS-Q14a	0	aT	<0.3	4.56	19.0	13	390	3	0.8	7.6	0.71	<0.3	180	15	79	18
CS-Q14b	0	bT	<0.3	8.39	14.5	<2	290	2	0.5	17.8	0.32	<0.3	91	17	91	12
CS-R01	0	bT	0.4	5.21	16.7	3	300	2	0.7	39.0	0.54	<0.3	110	14	80	11
CS-R01	8	bT	0.8	4.76	16.7	<2	340	1	0.8	29.1	0.43	<0.3	95	12	75	11
CS-R02	0	bT	0.8	5.11	10.9	<2	330	1	0.7	5.1	0.45	<0.3	87	17	85	11
CS-R03	0	bT	0.8	6.16	7.4	5	310	1	0.5	7.8	0.49	<0.3	76	12	70	8
CS-R04	0	bT	0.3	6.01	15.2	<2	330	3	3.0	6.7	0.35	<0.3	85	11	63	11
CS-R05	0	bT	0.8	7.63	16.4	<2	410	11	2.5	3.7	0.18	<0.3	110	8	21	32
CS-R06	0	bT	0.9	4.54	23.6	<2	440	<1	0.5	18.1	0.38	<0.3	74	16	91	8
CS-R07	0	bT	1.0	5.32	13.0	<2	380	1	0.5	22.3	0.41	<0.3	94	12	80	8
CS-R08	0	bT	0.8	5.75	20.4	<2	450	2	0.5	6.5	0.71	<0.3	149	14	73	8
CS-R09	0	bT	0.7	5.54	12.1	<2	640	1	0.5	27.1	0.56	<0.3	130	12	61	8
CS-R10	0	bT	1.0	5.97	9.4	<2	510	1	0.6	20.5	1.08	<0.3	142	14	70	6
CS-R11	0	aT	<0.3	6.81	6.7	<2	320	3	0.9	26.5	1.37	<0.3	200	16	60	9
CS-R12	0	aT	<0.3	7.46	4.6	<2	240	2	0.9	42.0	1.69	<0.3	180	19	89	9
CS-R13	0	bT	<0.3	5.72	7.9	<2	370	4	1.2	9.1	0.82	<0.3	140	14	59	11
CS-R13	8	bT	0.9	5.88	12.2	<2	200	4	1.3	6.9	0.76	<0.3	151	17	59	14
CS-R14a	0	aT	<0.3	5.31	10.0	<2	320	7	1.3	7.2	0.38	<0.3	120	8	30	20
CS-R14b	0	bT	1.0	4.74	12.3	<2	560	5	0.8	4.9	0.24	<0.3	108	12	60	23
CS-S01	0	bT	1.1	4.32	15.1	<2	510	1	1.3	24.0	0.27	<0.3	91	17	113	15
CS-S02	1	bT	0.9	6.17	23.8	<2	150	6	3.7	11.1	0.14	<0.3	97	12	52	57
CS-S02	2	bT	0.7	20.99	27.6	<2	150	7	3.4	10.6	0.19	<0.3	59	6	26	57
CS-S03	0	bT	0.8	5.48	20.0	2	430	2	0.7	8.9	0.42	<0.3	114	22	104	16
CS-S04	0	bT	0.9	6.18	60.3	<2	440	7	3.1	<0.5	0.19	<0.3	107	7	63	41
CS-S05	0	bT	1.0	5.80	10.7	6	340	2	0.9	7.8	0.31	<0.3	86	13	82	8
CS-S05	8	bT	0.9	4.37	12.5	11	510	2	1.0	9.2	0.28	<0.3	94	15	91	10

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat- erial	Ag @ ppm	Al @ %	As # ppm	Au # ppb	Ba # ppm	Be @ ppm	Bi $ ppm	Br # ppm	Ca @ %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
CS-S06	0	bT	1.4	8.27	9.2	4	370	7	0.8	12.8	0.16	<0.3	207	12	30	18
CS-S07	0	bT	0.8	5.16	17.2	5	400	3	1.1	6.5	0.31	<0.3	93	14	74	10
CS-S08a	0	aT	1.0	7.05	18.8	4	350	2	0.8	15.9	0.98	<0.3	168	18	75	11
CS-S08b	0	bT	1.0	5.44	28.5	<2	480	2	1.0	<0.5	0.29	<0.3	114	15	90	14
CS-S09	0	bT	1.1	5.55	10.1	<2	420	1	0.4	6.8	0.45	<0.3	106	13	71	7
CS-S10	0	bT	1.1	5.11	14.8	<2	370	2	0.6	4.1	0.39	<0.3	138	16	63	12
CS-S11a	0	aT	<0.3	7.57	10.8	<2	410	2	0.4	13.2	1.50	<0.3	160	12	59	6
CS-S11b	0	bT	1.4	4.84	6.2	<2	530	2	0.4	23.0	0.64	<0.3	143	9	39	9
CS-S12	0	bT	<0.3	5.78	11.8	<2	500	3	0.5	14.2	0.78	<0.3	170	16	59	12
CS-S13a	0	aT	2.6	5.60	10.1	<2	950	3	0.9	7.2	0.58	<0.3	315	24	30	19
CS-S13b	0	bT	1.5	10.43	8.7	<2	480	2	0.7	24.0	0.84	<0.3	158	8	48	18
CS-S14a	0	aT	<0.3	5.57	7.7	<2	360	6	1.1	4.6	0.57	<0.3	140	10	33	15
CS-S14b	0	bT	1.2	5.31	7.2	<2	430	6	1.1	7.5	0.32	<0.3	136	8	37	12
CS-T01	0	bT	0.9	5.40	11.5	<2	480	2	1.1	4.2	0.45	<0.3	131	17	95	15
CS-T02	0	bT	1.0	5.04	8.1	<2	400	1	1.0	9.6	0.43	<0.3	98	15	82	9
CS-T03	0	bT	1.0	5.15	11.7	<2	480	2	1.1	5.9	0.30	<0.3	110	14	80	13
CS-T04	0	bT	0.8	5.41	13.2	6	500	3	1.2	9.6	0.20	<0.3	76	11	80	13
CS-T05	0	bT	0.7	5.68	14.5	<2	360	4	1.7	16.9	0.22	<0.3	101	11	59	15
CS-T06	0	bT	0.9	5.19	11.4	<2	310	4	1.3	2.5	0.26	<0.3	102	12	65	12
CS-T07	0	bT	0.9	5.10	12.0	<2	330	1	0.5	9.8	0.41	<0.3	83	15	73	8
CS-T08	0	bT	0.8	6.33	52.2	<2	500	2	0.9	17.3	0.56	<0.3	131	22	71	14
CS-T09	0	aT	1.7	6.20	10.5	<2	630	2	1.1	10.1	1.30	0.8	167	15	45	9
CS-T10	0	bT	0.9	5.79	16.5	<2	520	2	0.7	<0.5	0.38	<0.3	113	17	97	10
CS-T11	0	bT	0.7	6.27	21.8	5	600	1	0.6	14.4	1.17	<0.3	130	22	60	13
CS-T12	0	bT	1.0	6.87	9.9	2	460	2	0.5	3.4	1.29	<0.3	150	15	61	8
CS-T13	0	bT	1.2	6.45	10.0	<2	500	2	0.6	15.5	1.01	<0.3	140	15	59	9
CS-T14	0	bT	<0.3	5.55	7.5	<2	370	3	0.5	9.8	1.52	<0.3	110	17	43	9
CS-T14	8	bT	1.1	7.22	6.1	2	340	3	0.6	7.0	1.54	<0.3	117	19	42	11
CS-V01	1	dT	1.1	6.90	10.1	<2	360	5	1.7	2.8	0.07	<0.3	193	8	19	26
CS-V01	2	dT	1.1	7.89	11.7	<2	480	6	1.9	<0.5	0.07	<0.3	195	9	20	27
CS-V02	0	bT	0.9	4.08	8.9	<2	370	2	0.8	7.1	0.23	<0.3	74	9	53	8
CS-V03	0	bT	0.9	4.12	14.1	<2	380	2	1.1	8.2	0.19	<0.3	91	16	78	15
CS-V04	0	bT	0.9	4.07	11.8	6	390	2	1.3	<0.5	0.28	<0.3	121	17	88	13
CS-V05	0	bT	1.0	3.67	10.3	4	440	2	0.7	13.5	0.26	<0.3	98	10	72	8
CS-V06a	0	aT	1.0	4.08	14.2	<2	280	3	1.0	7.1	0.40	<0.3	114	9	57	8
CS-V06b	0	bT	0.9	3.74	23.4	<2	350	3	1.1	6.0	0.19	<0.3	101	16	72	11
CS-V07	0	bT	0.9	5.19	33.9	<2	470	2	1.7	22.7	0.31	<0.3	114	9	58	11
CS-V08-1	0	aT	1.2	5.11	26.1	<2	320	2	1.8	9.2	0.46	<0.3	129	16	76	8
CS-V08-2	0	bT	1.0	15.11	108	<2	410	4	5.7	<0.5	0.91	<0.3	123	18	75	16
CS-V08-2	8	bT	1.0	6.87	113	<2	520	3	6.8	<0.5	0.67	<0.3	138	20	80	19
CS-V09	0	bT	0.9	7.73	159	5	490	2	7.0	6.4	1.19	<0.3	106	29	83	17
CS-V10	0	bT	1.4	4.71	141	4	870	<1	3.2	37.2	0.52	<0.3	88	15	71	9
CS-V11-1	0	aT	1.5	6.26	77.0	5	410	1	0.6	17.1	1.10	<0.3	101	19	64	5
CS-V11-2	0	bT	1.0	5.10	83.8	<2	470	1	0.8	2.0	0.69	<0.3	106	21	72	6
CS-V12	0	bT	1.1	5.96	30.9	<2	430	1	0.6	9.3	1.21	<0.3	129	22	63	7
CS-V13	0	bT	1.1	10.14	31.9	<2	550	2	0.7	<0.5	0.89	<0.3	112	25	80	8
CS-V14	0	bT	<0.3	5.59	23.0	<2	340	2	0.4	18.9	1.51	<0.3	111	18	65	7

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	Al @ %	As # ppm	Au # ppb	Ba # ppm	Be @ ppm	Bi $ ppm	Br # ppm	Ca @ %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
CS-W01	0	bT	0.7	9.77	20.0	<2	590	2	0.7	<0.5	0.75	<0.3	91	18	80	9
CS-W02	0	bT	1.0	6.30	18.5	3	510	3	0.7	8.3	0.37	<0.3	95	14	64	10
CS-W03	0	bT	1.0	5.60	18.1	<2	290	3	0.9	2.3	0.21	<0.3	89	12	64	12
CS-W04	0	bT	1.0	4.55	23.1	<2	250	2	0.7	3.9	0.24	<0.3	73	13	77	9
CS-W04.5	0	bT	1.0	3.94	15.6	<2	400	2	0.6	6.1	0.32	<0.3	87	10	67	8
CS-W05	0	bT	0.7	4.28	28.5	<2	470	2	0.9	2.2	0.18	<0.3	83	16	84	11
CS-W06	0	bT	0.8	4.86	45.4	<2	700	2	0.5	<0.5	0.18	<0.3	109	19	64	9
CS-W07	0	bT	0.8	4.68	91.2	7	540	2	0.6	12	0.22	<0.3	110	21	72	8
CS-W08	0	bT	1.0	5.41	134	3	480	1	9.0	9.7	0.56	<0.3	99	11	59	7
CS-W09	0	bT	0.7	5.17	26.8	6	470	<1	0.6	2.0	0.32	<0.3	89	18	95	8
CS-W10a	0	aT	0.4	8.15	121	5	620	2	3.5	5.6	0.46	<0.3	292	68	81	9
CS-W10b	0	bT	1.2	7.30	98.4	<2	520	1	8.7	11.3	0.90	<0.3	107	17	78	8
CS-W11	0	bT	0.8	7.33	69.1	8	520	<1	2.9	17.8	0.60	<0.3	90	19	82	11
CS-W12	0	bT	1.1	13.01	31.6	4	400	1	0.8	20.0	1.72	<0.3	110	11	60	4
CS-W13	0	bT	0.8	10.39	27.3	3	570	2	0.5	4.6	0.75	<0.3	114	19	73	7
CS-W14	0	bT	<0.3	6.17	20.3	2	510	3	0.6	3.5	0.87	<0.3	124	16	72	10
CS-X12	0	bT	1.0	15.39	45.3	<2	450	3	1.5	10.9	1.11	<0.3	111	18	55	17
CS-X13	0	bT	0.8	12.40	38.6	<2	720	2	1.6	12.4	1.45	<0.3	121	21	61	10
CS-X14	0	bT	1.0	12.97	32.4	<2	450	2	0.8	7.0	0.97	<0.3	118	18	73	8

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Ge $ ppm	Hf # ppm	Hg * ppb	K @ %	La # ppm	Lu # ppm	Mg @ %	Mn @ ppm	Mo @ ppm	Mo # ppm
CS-H02	0	bT	15	1.0	3.99	0.4	7	34	1.83	33.4	0.41	1.08	409	<1	2
CS-H03	0	bT	20	1.2	3.82	0.6	11	23	1.66	36.9	0.50	0.94	745	<1	<1
CS-H04	0	bT	15	1.1	3.34	0.4	11	22	1.49	38.3	0.44	0.86	563	1	<1
CS-H05	0	bT	29	1.0	3.97	0.6	8	14	1.87	36.7	0.52	1.38	925	<1	<1
CS-H06	0	bT	29	1.8	4.64	0.4	8	22	2.63	39.8	0.61	1.63	856	<1	3
CS-H07	0	bT	27	1.4	4.82	0.6	8	56	1.27	36.0	0.44	0.87	534	1	5
CS-H08	0	bT	28	1.8	7.41	0.9	12	198	1.40	38.1	0.99	0.28	1828	3	<1
CS-H10	0	bT	19	1.2	3.87	0.6	13	40	0.79	35.9	0.50	0.45	421	<1	<1
CS-H11	0	bT	18	1.7	4.01	0.5	12	66	0.79	49.6	0.61	0.24	223	<1	<1
CS-H11	8	bT	17	2.0	3.72	0.4	13	69	0.96	54.8	0.73	0.30	246	1	<1
CS-H12	0	bT	25	1.8	4.27		9	112	1.83	48.7	0.63	0.40	72	<2	<1
CS-H13	0	bT	22	3.0	4.89		12	11	2.16	61.5	0.89	1.09	932	<2	<1
CS-H13	8	bT	17	2.3	4.61	0.4	11	15	2.29	52.4	0.81	1.13	787	<1	<1
CS-H14	0	bT?	15	1.3	4.25		6	14	3.31	38.9	0.57	1.45	923	<2	3
CS-H14	8	bT?	12	1.3	4.07	0.8	5	16	3.73	34.5	0.54	1.58	823	<1	<1
CS-H15	0	bT	23	2.2	4.32		14	12	2.47	58.0	0.84	1.27	903	<2	2
CS-H15	8	bT	19	1.9	4.30	0.3	12	15	2.66	52.4	0.76	1.30	783	<1	<1
CS-K02	0	bT	33	1.5	4.59	0.6	9	26	1.99	38.2	0.52	1.08	871	1	<1
CS-K03	0	bT	21	1.5	5.48	0.2	10	62	1.75	34.0	0.59	0.96	826	<1	<1
CS-K04	0	bT	21	1.4	3.68	0.5	10	37	1.66	37.1	0.50	0.91	694	<1	<1
CS-K05	1	bT	24	1.3	4.10	0.6	9	40	1.79	36.3	0.50	0.95	749	<1	<1
CS-K05	2	bT	27	1.7	4.08	1.0	14	23	2.23	44.6	0.59	1.29	895	<1	3
CS-K05	2,8	bT	30	1.3	3.80	0.7	9	24	1.69	37.1	0.46	1.12	809	2	<1
CS-K06	0	bT	22	2.1	3.35	0.7	14	22	1.68	76.7	0.94	0.55	247	<1	4
CS-K07	0	bT	24	1.5	3.64	0.7	10	28	1.75	50.0	0.63	0.98	642	2	<1
CS-K08	0	bT	19	1.1	2.72	0.5	13	25	1.26	32.6	0.56	0.73	296	1	6
CS-K09-1	0	GL	18	1.0	3.59	0.4	11	56	1.38	33.9	0.54	0.77	483	<1	<1
CS-K09-2	0	GF	20	1.2	4.14	0.3	12	94	1.49	37.3	0.55	0.73	756	2	<1
CS-K09-3	0	bT	16	1.2	3.20	0.3	10	33	1.99	35.6	0.63	0.91	769	<1	<1
CS-K11	0	bT	18	1.4	4.62	0.8	11	37	1.66	42.8	0.67	0.70	487	<1	<1
CS-K12	0	bT	13	1.4	3.25	0.7	14	24	1.27	40.5	0.56	0.63	349	<1	<1
CS-K13	0	bT	30	1.5	5.64		6	<5	1.02	51.5	0.62	0.36	65	<2	<1
CS-K14	0	bT	22	1.0	4.51		6	10	3.00	34.2	0.50	1.43	810	<2	<1
CS-L02	0	bT	17	1.4	3.51	0.4	10	25	1.57	38.7	0.48	0.84	572	1	<1
CS-L02	8	bT	16	1.1	3.36	0.3	10	26	1.49	37.7	0.45	0.80	507	2	<1
CS-L03	0	bT	37	1.2	3.82	0.4	11	38	1.37	33.5	0.43	0.76	500	4	7
CS-L04	0	bT	28	1.5	3.27	0.4	12	25	1.13	37.3	0.46	0.80	418	1	<1
CS-L05	0	bT	19	1.4	3.60	0.5	14	20	1.62	39.7	0.58	0.96	708	<1	<1
CS-L06	0	bT	17	1.4	3.29	0.3	18	41	1.36	37.0	0.64	0.81	481	2	<1
CS-L07	0	bT	27	1.5	3.57	0.4	13	58	1.13	37.5	0.51	0.78	482	2	4
CS-L08	0	bT	16	1.0	2.90	0.4	10	35	0.89	31.5	0.37	0.75	255	2	<1
CS-L09	0	bT	24	1.4	3.39	0.4	13	23	1.16	38.7	0.54	0.91	455	3	<1
CS-L10	0	bT	39	2.4	4.21	0.7	11	46	1.63	43.6	1.08	1.57	993	5	2
CS-L11	0	bT	16	1.4	3.12	0.6	22	23	2.11	46.0	0.91	0.70	447	2	<1
CS-L12a	0	bT	15	1.2	4.06	0.5	14	51	1.43	36.7	0.60	0.70	379	<1	<1
CS-L12b	0	bT	18	1.2	4.08	0.7	11	8	1.77	34.6	0.64	0.34	317	<1	2
CS-L13	0	bT	19	1.5	4.20		14	71	1.40	42.0	0.60	0.61	326	<2	2

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Ge $ ppm	Hf # ppm	Hg * ppb	K @ %	La # ppm	Lu # ppm	Mg @ %	Mn @ ppm	Mo @ ppm	Mo # ppm
CS-L14	0	bT	18	1.4	3.82		10	<5	3.19	44.4	0.62	1.14	687	<2	3
CS-L14	8	bT	15	1.2	3.81	0.7	10	<5	3.72	46.4	0.70	1.32	662	<1	2
CS-M02	0	bT	35	1.2	3.45	0.6	12	28	1.24	34.6	0.57	1.10	467	2	3
CS-M03	0	bT	31	1.3	3.92	0.5	10	31	1.47	33.9	0.57	1.31	785	3	3
CS-M04	0	bT	22	1.4	3.42	0.5	13	35	1.25	34.5	0.58	0.96	394	2	5
CS-M05	0	bT	34	1.5	4.54	0.5	9	44	1.67	35.8	0.52	1.64	772	4	9
CS-M06	0	bT	25	1.4	3.52	0.4	12	55	1.02	35.1	0.54	0.77	573	<1	<1
CS-M07	0	bT	31	1.8	4.45	0.2	9	101	1.01	36.2	0.59	0.84	487	2	<1
CS-M08	0	bT	25	1.8	3.84	0.2	13	68	0.84	39.9	0.60	0.91	474	1	10
CS-M09a	0	bT	19	1.3	3.69	0.1	5	204	0.46	36.0	0.49	0.45	395	3	<1
CS-M09b	0	bT	21	1.5	3.51	0.6	12	27	1.20	40.1	0.62	0.97	454	2	<1
CS-M10	0	bT	47	1.2	4.97	0.5	7	80	0.80	25.7	0.37	1.70	446	2	<1
CS-M11	0	bT	22	1.8	5.00	1.1	12	35	1.28	43.7	0.65	0.74	955	<1	1
CS-M12	0	bT	13	1.6	4.08	0.9	12	29	1.19	44.1	0.72	0.45	451	<1	3
CS-M13	0	bT	20	1.8	4.63	1.2	8	9	1.99	52.4	0.70	0.19	253	<1	2
CS-M14	0	bT	11	1.1	3.76	0.7	15	24	1.34	36.4	0.71	0.54	614	<1	<1
CS-N02	0	bT	38	1.5	5.43	0.5	9	56	1.39	43.6	0.44	1.89	740	3	<1
CS-N02	8	bT	51	1.8	5.49	0.2	9	57	1.68	45.3	0.54	2.33	910	7	<1
CS-N03	0	bT	23	1.2	4.13	0.5	10	30	1.11	38.0	0.48	1.20	472	<1	<1
CS-N04	1	bT	59	1.7	4.28	0.4	8	71	0.85	29.9	0.46	1.55	694	3	4
CS-N04	2	bT	55	1.8	4.76	0.5	9	48	0.74	30.2	0.46	1.55	648	2	<1
CS-N05	0	bT	27	1.5	4.76	0.6	11	25	1.07	32.1	0.57	1.58	773	5	<1
CS-N06a	0	bT	31	1.6	4.95	0.3	7	132	0.57	24.2	0.46	1.00	357	4	<1
CS-N06b	1	bT	36	2.0	6.11	0.5	7	45	1.62	40.3	0.62	1.41	1197	3	10
CS-N06b	2	bT	29	1.3	4.68	1.0	7	43	1.88	35.3	0.45	1.16	1056	4	<1
CS-N07	0	bT	31	2.7	10.0	0.7	13	42	1.44	40.6	1.05	1.32	1731	3	<1
CS-N08-1	0	bT	27	1.6	5.95	0.3	5	108	0.98	30.9	0.53	0.82	495	<1	7
CS-N08-2	0	bT	21	2.1	5.72	0.2	8	123	1.22	34.2	0.64	1.18	653	<1	4
CS-N09	0	bT	22	1.5	4.50	0.5	12	69	0.93	34.1	0.57	0.92	614	3	7
CS-N10	0	bT	10	1.2	3.40	0.2	14	70	1.18	32.9	0.55	0.70	308	<1	1
CS-N11-1	0	bT	49	1.5	5.38	0.8	13	25	0.96	29.2	0.54	2.25	967	<1	<1
CS-N11-2	0	bT	44	1.9	5.45	0.7	13	20	0.99	36.2	0.64	1.74	923	<1	<1
CS-N12	0	bT	40	1.7	5.62	1.0	10	48	1.10	40.8	0.59	0.91	1407	<1	4
CS-N12	8	bT	40	1.8	5.79	0.7	8	37	1.17	41.0	0.61	1.16	1509	3	3
CS-N13	0	bT	14	1.1	3.82	0.7	15	29	2.03	41.1	0.76	0.81	519	<1	<1
CS-N14	0	bT	17	1.5	4.26	1.2	12	20	1.93	41.8	0.67	0.63	669	<1	4
CS-P01	0	bT	15	1.2	3.12	0.6	14	30	1.32	37.9	0.62	0.75	352	2	<1
CS-P02	0	bT	18	1.3	4.03	0.2	12	63	1.17	36.1	0.51	0.84	500	1	8
CS-P03	0	bT	17	1.5	4.02	0.6	14	40	1.25	45.6	0.59	0.78	421	2	<1
CS-P04	0	bT	18	1.6	4.25	0.4	13	18	1.25	40.6	0.62	0.97	671	2	5
CS-P05	0	bT	25	1.7	4.92	1.1	13	24	1.29	44.2	0.65	0.92	877	<1	6
CS-P06	0	bT	16	1.3	4.73	1.2	19	48	2.22	91.5	1.82	0.41	850	<1	<1
CS-P06	8	bT	17	1.1	4.41	0.9	11	53	1.96	80.7	1.54	0.60	833	2	<1
CS-P07	0	bT	22	1.6	4.82	0.8	13	34	1.33	36.5	0.65	1.19	1362	<1	2
CS-P08	0	bT	13	1.2	4.24	1.0	13	13	2.60	90.4	2.35	0.72	878	2	<1
CS-P08	8	bT	16	1.3	4.10	0.7	11	14	2.01	85.7	1.97	0.66	859	2	<1
CS-P09	0	bT	20	1.3	4.26	0.6	10	22	1.19	36.5	0.54	1.30	799	<1	<1

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Ge $ ppm	Hf # ppm	Hg * ppb	K @ %	La # ppm	Lu # ppm	Mg @ %	Mn @ ppm	Mo @ ppm	Mo # ppm
CS-P10	0	bT	21	1.2	4.37	0.7	12	18	1.34	34.9	0.58	1.37	1051	<1	<1
CS-P11	0	bT	17	1.2	4.33	0.6	10	32	0.88	28.7	0.57	1.83	823	<1	<1
CS-P12	0	bT	27	1.4	4.93	0.7	9	23	1.13	35.2	0.56	1.67	627	3	<1
CS-P13	0	bT	13	2.2	6.36	0.6	7	9	2.76	44.9	0.64	1.37	868	<1	<1
CS-P14	0	bT	36	1.3	6.30	0.9	7	28	1.25	25.6	0.52	2.12	1279	<1	2
CS-Q01	0	bT	34	1.7	5.21	0.9	10	32	1.79	52.8	0.71	1.00	881	3	5
CS-Q02	0	bT	33	1.7	3.51	0.3	12	56	1.31	56.9	0.68	0.89	547	2	<1
CS-Q03	0	bT	22	1.3	3.86	0.7	9	31	1.38	40.1	0.54	0.86	705	1	2
CS-Q04	0	bT	22	1.2	3.76	0.7	9	27	1.28	38.0	0.53	0.74	651	3	3
CS-Q05	0	bT	18	1.4	3.52	0.7	10	18	1.61	53.0	0.71	0.85	591	2	6
CS-Q05	8	bT	18	1.6	4.08	0.6	14	18	1.56	57.8	0.83	0.81	591	2	<1
CS-Q06	0	bT	22	1.3	3.94	0.4	7	37	1.44	41.0	0.52	1.02	1103	1	<1
CS-Q07	0	bT	29	1.6	5.21	0.5	6	65	1.51	57.7	0.64	1.00	967	1	13
CS-Q08	0	bT	16	1.3	3.54	0.7	12	20	1.79	62.7	1.06	0.74	795	1	9
CS-Q09	0	mT	16	1.4	3.79	0.5	13	21	1.42	71.0	0.94	0.85	1011	2	4
CS-Q10	0	bT	23	1.4	4.01	0.9	8	22	1.86	58.9	0.93	1.16	919	2	<1
CS-Q11	0	bT	35	1.4	6.76	0.8	6	19	1.17	31.9	0.63	2.70	1090	2	<1
CS-Q11	8	bT	30	1.6	6.41	0.7	8	21	1.09	30.8	0.65	2.25	977	<1	2
CS-Q12	0	aT	19	1.4	5.10	0.8	13	14	1.74	56.1	2.07	2.19	971	1	4
CS-Q13	0	bT	12	0.9	3.02	0.8	9	13	2.81	41.9	1.66	0.77	781	<1	<1
CS-Q13	8	bT	13	0.8	2.75	0.9	7	13	2.02	36.3	1.47	0.61	754	3	10
CS-Q14a	0	aT	21	1.7	3.93	0.9	17	15	2.68	47.6	1.33	0.89	1053	<1	<1
CS-Q14b	0	bT	19	1.3	4.64	0.4	12	36	1.84	38.3	0.71	1.49	600	2	<1
CS-R01	0	bT	37	2.2	3.49	0.3	18	67	1.71	61.1	1.08	0.87	413	2	5
CS-R01	8	bT	33	1.5	3.17	0.3	10	74	1.32	51.0	0.80	0.63	433	2	7
CS-R02	0	bT	24	1.5	3.87	0.7	10	31	1.55	43.9	0.68	0.91	740	3	<1
CS-R03	0	bT	17	1.4	2.84	0.4	11	34	1.41	38.1	0.59	0.85	492	2	<1
CS-R04	0	bT	52	1.2	2.76	0.5	8	24	1.87	40.6	0.56	0.61	660	2	5
CS-R05	0	bT	18	1.0	2.88	0.6	6	34	2.42	49.8	0.68	0.37	882	2	10
CS-R06	0	bT	20	1.2	3.89	0.4	9	42	1.41	37.8	0.53	0.89	720	2	3
CS-R07	0	bT	17	1.4	3.39	0.5	11	50	1.45	42.2	0.66	0.79	456	3	<1
CS-R08	0	bT	20	1.5	4.38	0.4	14	21	2.03	67.3	1.04	1.00	1032	1	4
CS-R09	0	bT	10	1.4	3.83	0.3	17	75	2.15	68.0	0.82	0.53	398	2	10
CS-R10	0	bT	10	1.6	3.49	0.3	14	40	1.88	68.2	0.76	0.81	505	2	<1
CS-R11	0	aT	15	1.5	3.35	0.3	21	43	3.15	103.0	1.35	1.05	805	<1	<1
CS-R12	0	aT	21	1.1	3.50	0.3	13	47	2.95	89.5	1.42	1.30	628	2	<1
CS-R13	0	bT	13	1.1	4.55	0.4	14	13	3.05	63.3	2.55	1.10	724	1	<1
CS-R13	8	bT	12	1.0	5.01	0.9	10	14	2.34	62.8	2.20	0.67	780	3	<1
CS-R14a	0	aT	10	0.9	3.49	0.8	14	32	2.91	56.8	2.07	0.43	666	1	7
CS-R14b	0	bT	10	1.0	4.18	0.7	10	21	1.74	47.9	1.10	0.52	558	<1	<1
CS-S01	0	bT	44	1.5	4.86	0.7	12	54	1.32	42.7	0.68	0.77	466	3	<1
CS-S02	1	bT	12	0.9	2.70	<0.1	7	48	3.00	49.6	0.59	0.33	807	2	6
CS-S02	2	bT	12	0.8	2.24	0.2	7	42	4.22	29.5	0.39	0.66	720	4	<1
CS-S03	0	bT	33	1.8	4.97	0.7	12	32	1.73	56.4	0.79	0.91	696	<1	5
CS-S04	0	bT	16	0.9	3.36	0.7	7	25	2.04	58.9	0.67	0.57	223	2	<1
CS-S05	0	bT	20	1.3	3.21	0.6	10	33	1.55	41.3	0.50	0.78	515	2	5
CS-S05	8	bT	20	1.4	3.81	0.6	11	33	1.45	48.7	0.63	0.67	516	3	8

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Ge $ ppm	Hf # ppm	Hg * ppb	K @ %	La # ppm	Lu # ppm	Mg @ %	Mn @ ppm	Mo @ ppm	Mo # ppm
CS-S06	0	bT	12	1.9	2.82	0.7	9	28	2.55	91.6	0.96	0.27	1121	4	16
CS-S07	0	bT	20	1.1	3.47	0.9	8	27	1.74	46.9	0.56	0.77	736	1	<1
CS-S08a	0	aT	26	2.1	3.67	0.4	16	39	1.90	87.3	1.20	1.00	907	3	<1
CS-S08b	0	bT	25	1.8	4.34	1.1	9	15	1.90	57.9	0.75	0.89	701	<1	<1
CS-S09	0	bT	16	1.4	3.10	0.6	11	21	1.55	53.8	0.68	0.82	552	3	<1
CS-S10	0	bT	18	1.5	4.12	0.9	11	19	1.80	66.2	0.75	0.81	731	2	<1
CS-S11a	0	aT	11	1.6	3.27	0.4	24	27	2.97	89.0	1.14	1.07	688	3	<1
CS-S11b	0	bT	10	1.3	3.18	0.4	11	84	1.86	71.5	0.82	0.52	439	3	5
CS-S12	0	bT	15	1.6	4.58	0.2	20	20	2.69	79.9	1.11	1.21	749	3	5
CS-S13a	0	aT	25	4.2	5.35	0.5	28	42	2.59	183	1.49	0.52	1845	2	<1
CS-S13b	0	bT	9	1.1	3.43	0.3	13	61	2.69	79.6	1.02	0.81	429	2	10
CS-S14a	0	aT	8	1.0	3.21	1.0	14	7	3.18	68.0	2.56	0.51	741	<1	<1
CS-S14b	0	bT	8	0.9	2.91	0.8	10	23	2.23	58.4	2.13	0.32	560	2	<1
CS-T01	0	bT	36	2.3	4.18	1.0	12	35	1.66	62.3	0.92	0.95	697	3	8
CS-T02	0	bT	20	1.6	3.27	0.8	12	33	1.43	48.0	0.71	0.72	507	2	7
CS-T03	0	bT	18	1.3	3.60	1.0	9	25	1.71	52.3	0.61	0.72	547	3	5
CS-T04	0	bT	13	1.2	3.46	0.9	9	39	1.74	37.9	0.55	0.62	331	2	8
CS-T05	0	bT	14	1.0	3.05	0.8	8	81	2.02	49.9	0.55	0.53	337	<1	5
CS-T06	0	bT	16	1.5	3.35	0.8	8	16	1.86	51.9	0.64	0.64	631	2	8
CS-T07	0	bT	17	1.3	3.27	0.6	11	23	1.44	41.0	0.57	0.74	562	1	<1
CS-T08	0	bT	27	1.7	5.06	0.8	10	30	2.06	61.2	0.78	0.98	1169	2	<1
CS-T09	0	aT	18	1.8	4.40	0.3	17	26	2.18	85.0	1.09	0.98	1123	2	6
CS-T10	0	bT	21	1.8	4.17	1.1	10	21	1.74	54.0	0.77	1.03	717	1	6
CS-T11	0	bT	24	1.9	5.11	0.7	10	23	2.04	65.2	0.70	1.26	845	2	<1
CS-T12	0	bT	13	1.7	3.59	0.5	14	12	2.24	75.9	0.90	0.98	655	3	5
CS-T13	0	bT	12	1.5	3.68	0.5	13	34	1.91	70.7	0.86	0.85	537	3	<1
CS-T14	0	bT	16	1.6	4.26	0.2	18	12	2.38	59.7	1.14	1.33	765	5	<1
CS-T14	8	bT	15	1.6	4.22	0.4	12	12	2.14	55.7	1.04	1.18	858	3	4
CS-V01	1	dT	8	1.5	2.02	0.2	7	20	2.65	109	0.97	0.17	882	2	<1
CS-V01	2	dT	10	1.7	2.35	0.3	9	17	2.77	120	1.02	0.26	781	4	<1
CS-V02	0	bT	16	1.1	2.53	0.4	9	41	1.77	40.0	0.53	0.47	326	<1	4
CS-V03	0	bT	23	1.2	3.82	0.4	8	32	1.79	48.0	0.58	0.68	539	2	7
CS-V04	0	bT	27	1.6	4.18	0.7	11	26	1.69	60.5	0.83	0.80	576	<1	8
CS-V05	0	bT	12	1.4	2.91	0.4	11	45	1.45	50.9	0.67	0.47	329	1	<1
CS-V06a	0	aT	13	1.4	2.23	0.3	10	17	1.95	59.0	0.76	0.36	547	2	6
CS-V06b	0	bT	21	1.3	3.65	0.2	8	33	1.89	46.4	0.55	0.69	765	<1	4
CS-V07	0	bT	13	1.3	3.54	0.4	10	77	1.76	57.3	0.60	0.51	321	3	3
CS-V08-1	0	aT	28	1.7	3.24	0.3	17	33	1.52	60.4	0.92	0.79	655	1	<1
CS-V08-2	0	bT	91	2.1	5.39	0.8	8	26	2.74	70.1	0.77	1.80	942	5	6
CS-V08-2	8	bT	85	2.6	5.65	0.9	9	25	2.18	78.1	0.93	1.21	925	4	14
CS-V09	0	bT	117	1.7	5.29	0.3	7	32	1.86	45.8	0.68	1.57	1480	19	9
CS-V10	0	bT	55	1.5	5.33	0.4	7	106	1.12	42.1	0.52	0.77	500	13	21
CS-V11-1	0	aT	28	1.6	3.60	0.3	10	54	1.64	43.9	0.69	1.00	939	3	<1
CS-V11-2	0	bT	36	1.6	4.27	0.5	9	14	1.71	52.5	0.55	1.06	957	3	<1
CS-V12	0	bT	33	1.7	4.20	0.4	11	12	1.94	59.2	0.76	1.20	923	4	<1
CS-V13	0	bT	43	1.5	4.60	0.7	8	17	2.68	52.1	0.58	1.54	1187	3	6
CS-V14	0	bT	14	1.3	3.57	0.2	17	30	2.18	59.2	0.95	1.20	620	3	<1

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Ge $ ppm	Hf # ppm	Hg * ppb	K @ %	La # ppm	Lu # ppm	Mg @ %	Mn @ ppm	Mo @ ppm	Mo # ppm
CS-W01	0	bT	23	1.6	4.37	0.6	7	17	2.41	44.8	0.69	1.20	886	3	7
CS-W02	0	bT	20	1.4	3.24	0.7	9	47	2.06	47.4	0.62	0.85	546	2	3
CS-W03	0	bT	16	1.3	3.10	0.5	8	17	2.33	45.0	0.60	0.72	685	1	<1
CS-W04	0	bT	21	1.1	3.17	0.6	8	18	1.67	38.7	0.52	0.71	537	1	<1
CS-W04.5	0	bT	15	1.2	2.70	0.4	11	24	1.53	42.8	0.57	0.59	502	<1	<1
CS-W05	0	bT	21	1.2	3.76	0.6	7	19	1.76	40.9	0.51	0.78	635	<1	<1
CS-W06	0	bT	73	1.5	4.02	0.8	8	8	2.62	53.0	0.58	0.70	854	1	<1
CS-W07	0	bT	67	1.5	4.96	0.9	6	21	2.10	51.0	0.55	0.74	651	2	6
CS-W08	0	bT	76	1.6	3.84	0.4	14	26	1.82	52.0	0.74	0.78	702	4	6
CS-W09	0	bT	29	1.3	4.60	0.8	7	31	1.65	40.2	0.53	1.12	876	1	<2
CS-W10a	0	aT	81	2.9	4.97	0.4	6	55	1.83	86.2	0.63	1.36	1772	5	<1
CS-W10b	0	bT	110	1.7	4.40	0.3	11	19	1.78	48.4	0.61	1.27	1003	5	4
CS-W11	0	bT	50	1.4	5.00	0.5	9	33	1.62	45.5	0.54	1.26	676	2	<1
CS-W12	0	bT	18	1.5	3.23	0.3	17	43	1.72	52.7	0.75	1.13	611	3	<1
CS-W13	0	bT	35	2.0	4.40	0.8	11	13	2.46	61.3	0.64	1.41	935	3	3
CS-W14	0	bT	22	1.6	4.00	0.5	16	12	2.39	65.0	0.79	1.11	834	2	<1
CS-X12	0	bT	36	1.4	4.06	0.5	12	25	2.63	45.1	0.52	1.39	1086	5	4
CS-X13	0	bT	29	1.8	4.66	0.5	12	14	2.13	60.1	0.75	1.52	954	4	5
CS-X14	0	bT	26	1.6	4.14	0.6	12	17	2.38	58.2	0.68	1.39	911	4	<1

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Na # %	Nd # ppm	Ni @ ppm	Ni # ppm	P @ %	Pb @ ppm	Rb # ppm	S @ %	Sb # ppm	Sc # ppm	Se $ ppm	Sm # ppm	Sn $,@ ppm	Sr @ ppm
CS-H02	0	bT	0.85	20	53	65	0.046	36	99	0.015	1.0	12.7	0.3	5.0	2	51
CS-H03	0	bT	1.06	22	55	50	0.040	37	90	0.008	1.4	13.1	0.3	5.5	1	58
CS-H04	0	bT	1.18	23	46	50	0.044	23	70	0.010	2.1	10.1	0.7	5.3	<1	67
CS-H05	0	bT	0.87	23	55	50	0.031	26	74	0.007	2.2	13.3	0.1	5.1	<1	48
CS-H06	0	bT	0.92	29	60	62	0.062	31	87	0.008	2.2	16.4	0.2	7.5	1	54
CS-H07	0	bT	0.93	28	52	<32	0.036	24	78	0.010	2.1	14.1	0.8	5.6	1	44
CS-H08	0	bT	0.07	28	63	<33	0.212	19	125	0.007	5.6	21.9	1.1	8.3	3	18
CS-H10	0	bT	0.79	29	39	<24	0.016	20	56	0.007	1.7	10.2	0.5	5.3	<1	43
CS-H11	0	bT	0.35	39	50	<25	0.042	21	64	0.010	0.8	9.4	0.7	8.1	<1	40
CS-H11	8	bT	0.37	39	55	<21	0.047	21	63	0.005	1.0	9.3	0.9	7.9	<1	47
CS-H12	0	bT	0.08	45	48	<25	0.028	28	151	0.01	1.0	17.1		6.2	2	37
CS-H13	0	bT	0.12	68	52	<25	0.030	21	140	<0.01	5.0	20.0		10.3	2	34
CS-H13	8	bT	0.13	33	48	50	0.028	26	118	0.005	4.5	18.1	0.6	10.5	2	31
CS-H14	0	bT?	0.20	31	40	<20	0.019	18	203	0.01	2.5	18.1		4.8	1	28
CS-H14	8	bT?	0.21	20	38	36	0.022	28	180	0.007	2.3	16.7	0.5	4.8	2	27
CS-H15	0	bT	0.66	57	46	<23	0.049	22	130	0.01	2.3	15.8		8.6	2	63
CS-H15	8	bT	0.73	33	45	51	0.043	35	116	0.009	2.1	15.3	0.6	9.1	2	59
CS-K02	0	bT	1.02	22	66	90	0.037	125	88	0.009	2.1	16.9	0.2	5.9	3	57
CS-K03	0	bT	0.81	20	55	60	0.113	76	110	0.027	1.9	16.1	0.6	6.2	2	52
CS-K04	0	bT	1.10	26	55	67	0.041	65	89	0.011	1.5	12.6	0.3	5.5	1	61
CS-K05	1	bT	0.95	25	56	59	0.042	83	86	0.010	1.9	13.9	<0.1	5.6	2	59
CS-K05	2	bT	1.06	42	55	60	0.050	80	93	0.014	2.5	15.2	0.4	7.3	2	90
CS-K05	2,8	bT	0.91	26	52	<29	0.043	71	96	0.006	2.7	13.5	0.3	6.4	2	69
CS-K06	0	bT	0.71	58	24	<25	0.027	31	108	0.007	9.2	10.4	0.9	12.0	1	118
CS-K07	0	bT	1.25	29	32	<28	0.043	35	108	0.012	2.4	12.8	0.7	6.7	1	104
CS-K08	0	bT	1.48	22	30	<22	0.036	23	75	0.008	1.1	8.5	0.4	4.7	1	77
CS-K09-1	0	GL	1.05	19	44	53	0.040	31	78	0.014	2.5	11.5	0.5	5.0	1	65
CS-K09-2	0	GF	0.93	22	54	58	0.073	32	83	0.023	3.5	13.3	0.9	5.7	2	59
CS-K09-3	0	bT	1.25	24	40	50	0.065	33	86	0.009	1.9	11.3	0.4	5.8	2	76
CS-K11	0	bT	0.28	31	58	57	0.022	26	77	0.010	2.3	14.4	0.6	5.9	2	34
CS-K12	0	bT	1.18	24	41	53	0.026	22	61	0.009	0.6	10.2	0.8	5.9	<1	59
CS-K13	0	bT	0.07	40	97	<20	0.008	21	75	<0.01	0.9	19.3		5.9	2	34
CS-K14	0	bT	0.23	25	46	60	0.013	23	174	<0.01	2.1	16.5		3.7	1	29
CS-L02	0	bT	1.17	24	52	57	0.038	34	84	0.012	1.3	12.4	0.1	5.6	1	68
CS-L02	8	bT	1.12	23	47	47	0.036	33	84	0.009	1.1	11.2	0.3	5.3	1	62
CS-L03	0	bT	1.10	23	28	<21	0.046	255	73	0.017	23.8	11.5	0.8	5.0	<1	72
CS-L04	0	bT	1.47	32	37	<22	0.049	15	74	0.006	1.1	9.7	0.6	5.4	<1	82
CS-L05	0	bT	1.17	30	48	60	0.045	29	54	0.012	2.2	11.9	0.1	5.7	1	68
CS-L06	0	bT	1.25	25	44	50	0.057	21	51	0.016	1.2	10.6	0.5	5.9	2	74
CS-L07	0	bT	1.32	31	42	<22	0.063	16	56	0.010	1.0	10.8	0.5	6.2	1	77
CS-L08	0	bT	1.41	29	39	<21	0.045	12	54	0.010	0.5	9.0	0.7	4.7	<1	76
CS-L09	0	bT	1.45	28	39	<22	0.080	16	61	0.007	0.9	10.9	0.5	6.0	<1	94
CS-L10	0	bT	1.15	44	50	<26	0.054	33	76	0.019	1.9	19.6	0.6	9.1	<1	106
CS-L11	0	bT	0.10	35	51	65	0.018	42	96	0.013	1.2	15.4	0.2	6.6	2	18
CS-L12a	0	bT	0.66	27	52	60	0.041	24	65	0.020	1.1	11.3	0.7	5.4	1	50
CS-L12b	0	bT	0.25	26	33	50	0.021	26	78	0.007	1.5	16.7	0.4	4.9	2	37
CS-L13	0	bT	0.49	31	71	<20	0.033	17	79	0.01	1.2	13.4		5.9	2	48

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Na # %	Nd # ppm	Ni @ ppm	Ni # ppm	P @ %	Pb @ ppm	Rb # ppm	S @ %	Sb # ppm	Sc # ppm	Se $ ppm	Sm # ppm	Sn $,@ ppm	Sr @ ppm
CS-L14	0	bT	0.10	45	33	<22	0.014	30	196	<0.01	2.1	14.3		5.7	3	26
CS-L14	8	bT	0.10	30	32	40	0.018	33	150	0.004	1.7	14.1	<0.1	5.7	3	27
CS-M02	0	bT	1.49	22	40	<21	0.042	24	37	0.009	0.9	10.4	0.4	5.4	<1	117
CS-M03	0	bT	1.51	30	40	<22	0.071	18	52	0.018	1.3	11.8	0.6	5.9	<1	117
CS-M04	0	bT	1.53	25	38	<23	0.048	14	58	0.010	1.5	11.0	0.5	5.6	<1	91
CS-M05	0	bT	1.35	25	75	<24	0.086	39	79	0.016	0.8	13.2	0.4	6.1	1	112
CS-M06	0	bT	1.37	26	35	<20	0.050	19	74	0.012	1.6	11.2	0.3	5.4	1	67
CS-M07	0	bT	1.23	28	48	<24	0.128	14	55	0.011	1.3	16.3	0.9	6.5	<1	60
CS-M08	0	bT	1.30	31	32	<24	0.116	16	70	0.017	1.0	13.1	0.7	6.9	1	75
CS-M09a	0	bT	0.65	22	17	<27	0.168	13	29	0.074	0.5	10.9	1.9	6.7	2	43
CS-M09b	0	bT	1.40	35	36	<22	0.051	16	73	0.008	1.0	11.8	0.5	6.9	<1	88
CS-M10	0	bT	1.12	22	107	104	0.049	14	31	0.020	0.9	13.4	0.8	4.3	<1	61
CS-M11	0	bT	1.06	38	58	60	0.048	19	70	0.006	1.1	18.7	0.3	7.3	<1	80
CS-M12	0	bT	0.25	35	43	45	0.019	25	72	0.011	0.9	12.5	0.6	6.4	2	24
CS-M13	0	bT	0.13	43	54	79	0.026	20	130	0.008	1.0	20.2	0.5	7.9	1	27
CS-M14	0	bT	0.42	26	39	50	0.027	20	84	0.009	1.4	11.2	0.4	5.2	<1	30
CS-N02	0	bT	1.30	36	80	90	0.064	20	105	0.014	0.7	17.2	0.6	6.7	<1	116
CS-N02	8	bT	1.31	39	78	<28	0.086	26	53	0.024	0.3	17.9	0.7	6.9	<1	150
CS-N03	0	bT	1.46	34	44	<22	0.040	16	64	0.012	0.9	13.0	0.4	5.7	<1	86
CS-N04	1	bT	1.36	21	57	<24	0.140	15	42	0.024	0.6	16.2	0.8	5.8	<1	103
CS-N04	2	bT	1.53	26	66	<25	0.120	10	57	0.010	0.7	17.0	0.5	5.9	<1	100
CS-N05	0	bT	1.58	21	47	<23	0.090	16	70	0.011	1.0	15.1	0.3	6.1	<1	114
CS-N06a	0	bT	1.14	17	56	<29	0.097	12	40	0.042	1.0	15.8	0.9	4.7	<1	73
CS-N06b	1	bT	1.18	38	73	<31	0.070	23	88	0.006	3.0	20.8	0.4	8.2	1	90
CS-N06b	2	bT	0.97	21	62	<26	0.040	18	97	0.002	3.2	15.7	0.5	5.5	<1	67
CS-N07	0	bT	0.76	47	26	<36	0.216	13	116	0.012	5.0	34.4	0.8	10.1	2	61
CS-N08-1	0	bT	0.72	27	71	80	0.138	28	72	0.040	0.9	17.6	1.4	5.9	1	41
CS-N08-2	0	bT	0.81	31	47	50	0.327	31	54	0.082	0.8	16.3	1.4	7.4	1	83
CS-N09	0	bT	1.30	23	41	<24	0.056	17	50	0.011	1.0	15.2	0.8	5.9	<1	79
CS-N10	0	bT	1.34	25	37	63	0.063	24	60	0.027	0.8	11.0	0.8	5.2	1	78
CS-N11-1	0	bT	1.29	27	76	80	0.059	24	43	0.013	0.7	20.5	0.8	5.6	<1	117
CS-N11-2	0	bT	1.19	35	79	91	0.052	19	35	0.006	1.0	21.8	0.5	7.1	<1	107
CS-N12	0	bT	0.79	34	82	85	0.067	37	87	0.013	1.8	18.9	0.6	7.2	2	77
CS-N12	8	bT	0.81	31	82	<30	0.065	29	77	0.010	1.7	19.6	0.6	7.2	2	82
CS-N13	0	bT	0.23	29	27	<20	0.048	29	110	0.008	0.9	11.5	0.5	6.3	2	27
CS-N14	0	bT	0.33	30	52	55	0.026	31	120	0.008	1.4	15.0	0.5	6.3	2	31
CS-P01	0	bT	1.48	24	37	<20	0.039	20	78	0.010	0.9	9.6	0.5	5.7	1	80
CS-P02	0	bT	1.12	30	49	<24	0.069	27	80	0.035	1.0	12.8	0.4	5.9	1	52
CS-P03	0	bT	1.40	36	40	<22	0.035	16	76	0.012	1.0	12.0	0.4	7.2	1	71
CS-P04	0	bT	1.46	36	38	<23	0.057	18	87	0.006	1.1	14.1	0.4	6.7	1	77
CS-P05	0	bT	1.17	36	57	60	0.072	29	75	0.011	1.0	18.0	0.5	7.1	1	85
CS-P06	0	bT	1.84	75	36	40	0.059	39	170	0.013	1.3	17.7	1.1	18.1	4	50
CS-P06	8	bT	1.75	63	32	<30	0.056	35	137	0.009	1.1	17.0	0.7	17.5	4	50
CS-P07	0	bT	1.42	33	60	60	0.085	27	59	0.012	1.3	15.6	0.4	6.9	1	89
CS-P08	0	bT	1.98	52	29	34	0.062	44	159	0.008	0.9	17.4	0.8	19.0	4	62
CS-P08	8	bT	2.04	69	26	<29	0.061	32	168	0.004	1.3	16.5	0.7	20.3	5	57
CS-P09	0	bT	1.46	21	58	60	0.070	27	72	0.012	0.7	15.5	0.6	6.0	1	103

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Na # %	Nd # ppm	Ni @ ppm	Ni # ppm	P @ %	Pb @ ppm	Rb # ppm	S @ %	Sb # ppm	Sc # ppm	Se $ ppm	Sm # ppm	Sn $,@ ppm	Sr @ ppm
CS-P10	0	bT	1.45	26	57	68	0.062	21	52	0.010	0.7	15.8	0.8	5.8	1	102
CS-P11	0	bT	1.39	18	43	45	0.104	23	46	0.019	0.6	18.2	0.5	5.6	1	117
CS-P12	0	bT	0.99	21	68	68	0.070	26	63	0.013	0.4	16.3	1.1	6.1	1	95
CS-P13	0	bT	0.28	34	26	<28	0.205	42	154	0.007	1.0	18.8	0.4	8.0	3	58
CS-P14	0	bT	0.42	23	65	68	0.126	32	55	0.011	0.8	22.1	0.8	4.8	1	49
CS-Q01	0	bT	1.06	37	51	<28	0.062	24	136	0.008	1.2	17.2	0.8	9.1	2	63
CS-Q02	0	bT	1.18	39	35	<24	0.118	24	80	0.011	1.1	13.2	0.4	8.9	2	98
CS-Q03	0	bT	1.18	22	43	121	0.052	26	88	0.010	0.8	13.5	0.3	6.4	2	71
CS-Q04	0	bT	1.01	26	45	<23	0.041	23	87	0.012	0.8	12.2	0.9	6.2	2	61
CS-Q05	0	bT	1.25	43	33	<26	0.048	22	98	0.004	1.1	14.8	0.5	9.6	3	72
CS-Q05	8	bT	1.40	41	33	<26	0.049	24	138	0.004	1.3	15.7	0.4	9.9	3	70
CS-Q06	0	bT	1.27	33	48	<25	0.068	28	82	0.008	1.4	13.6	0.6	7.4	2	68
CS-Q07	0	bT	1.08	54	67	<37	0.076	26	94	0.008	1.5	20.6	0.7	10.8	2	49
CS-Q08	0	bT	1.87	46	29	<24	0.054	24	113	0.007	1.3	13.2	0.7	12.5	3	75
CS-Q09	0	mT	1.68	57	33	<24	0.082	21	74	0.006	1.3	13.3	0.8	14.2	2	75
CS-Q10	0	bT	1.58	46	55	<29	0.049	24	132	0.006	1.3	15.3	0.6	11.8	2	69
CS-Q11	0	bT	1.53	27	56	62	0.182	29	54	0.011	0.8	26.5	0.4	7.2	2	120
CS-Q11	8	bT	1.44	26	54	50	0.178	21	31	0.014	0.9	25.1	0.8	7.0	2	107
CS-Q12	0	aT	1.72	37	52	50	0.097	25	57	0.012	0.7	22.1	0.8	13.4	2	103
CS-Q13	0	bT	1.94	27	35	<28	0.039	40	184	0.007	0.5	13.9	0.4	10.6	5	55
CS-Q13	8	bT	1.84	30	30	<23	0.036	31	152	0.004	0.5	12.6	0.9	10.7	5	48
CS-Q14a	0	aT	0.95	43	26	<20	0.091	38	130	0.010	1.1	12.5	0.8	10.6	2	64
CS-Q14b	0	bT	0.57	30	43	50	0.058	11	98	0.036	0.9	13.4	0.8	5.9	2	61
CS-R01	0	bT	1.17	43	44	50	0.093	23	98	0.024	0.9	12.7	1.4	10.5	3	70
CS-R01	8	bT	1.07	39	39	<25	0.100	18	85	0.023	0.5	11.9	1.3	9.5	2	61
CS-R02	0	bT	1.15	34	42	<24	0.061	20	95	0.005	0.8	14.3	0.8	7.8	2	73
CS-R03	0	bT	1.30	29	30	<21	0.060	19	84	0.010	0.6	10.0	0.7	6.5	2	85
CS-R04	0	bT	1.45	28	28	<21	0.066	28	122	0.006	0.7	10.0	0.2	6.8	5	68
CS-R05	0	bT	1.27	30	16	<30	0.042	37	214	0.005	<0.1	10.4	0.4	8.8	6	33
CS-R06	0	bT	1.14	27	51	<23	0.077	27	81	0.013	1.5	13.2	0.5	6.7	2	66
CS-R07	0	bT	1.31	32	35	<25	0.060	23	113	0.012	0.7	12.5	1.1	8.0	2	72
CS-R08	0	bT	1.44	57	35	<27	0.124	31	134	0.005	1.1	16.6	1.0	13.4	3	74
CS-R09	0	bT	2.09	51	17	<33	0.064	32	112	0.017	0.9	13.1	1.1	11.5	2	73
CS-R10	0	bT	2.52	50	22	<32	0.057	25	117	0.011	0.7	14.4	0.7	12.7	2	91
CS-R11	0	aT	2.01	84	25	<21	0.122	24	130	0.019	0.5	13.0	1.2	17.4	3	98
CS-R12	0	aT	1.96	75	38	40	0.080	18	130	0.025	0.6	13.6	0.9	17.7	3	86
CS-R13	0	bT	2.28	55	27	<23	0.040	35	200	0.007	0.8	20.6	1.0	16.2	7	55
CS-R13	8	bT	2.54	55	23	<43	0.034	40	220	0.005	1.3	23.1	1.0	17.9	5	49
CS-R14a	0	aT	2.00	49	12	<20	0.031	42	240	0.011	1.1	13.9	0.7	11.8	8	38
CS-R14b	0	bT	1.88	32	22	<31	0.035	26	185	0.005	1.2	14.4	0.4	9.2	5	52
CS-S01	0	bT	1.37	32	50	<31	0.053	25	73	0.017	1.0	14.9	0.6	7.6	2	60
CS-S02	1	bT	2.03	30	13	<28	0.103	35	450	0.008	1.9	8.4	0.6	8.9	8	24
CS-S02	2	bT	1.12	18	<1	<20	0.076	39	439	0.012	2.0	6.3	0.8	4.3	8	49
CS-S03	0	bT	1.49	41	41	<32	0.067	21	154	0.007	1.2	17.8	0.7	9.8	3	71
CS-S04	0	bT	1.54	44	19	<33	0.050	32	211	0.006	1.1	11.5	0.5	9.9	6	41
CS-S05	0	bT	1.39	30	32	<21	0.055	21	104	0.006	0.9	10.9	0.3	7.2	3	70
CS-S05	8	bT	1.65	31	35	<28	0.055	22	107	0.007	1.0	12.8	0.6	8.1	3	66

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Na # %	Nd # ppm	Ni @ ppm	Ni # ppm	P @ %	Pb @ ppm	Rb # ppm	S @ %	Sb # ppm	Sc # ppm	Se $ ppm	Sm # ppm	Sn $,@ ppm	Sr @ ppm
CS-S06	0	bT	2.15	63	14	<27	0.043	32	267	0.005	<0.1	10.3	0.7	15.6	6	30
CS-S07	0	bT	1.38	35	37	<23	0.049	24	118	0.006	1.2	12.1	0.6	7.8	3	67
CS-S08a	0	aT	1.51	66	36	<25	0.153	30	88	0.012	0.7	13.9	0.9	15.2	2	105
CS-S08b	0	bT	1.36	43	38	<30	0.058	27	102	0.006	1.3	16.4	0.8	10.6	3	64
CS-S09	0	bT	1.52	39	31	<23	0.062	21	98	0.007	0.8	12.2	0.6	9.3	2	79
CS-S10	0	bT	1.37	56	31	<28	0.073	29	128	0.005	0.9	15.2	0.6	11.5	3	70
CS-S11a	0	aT	1.98	68	26	<20	0.125	22	110	0.017	0.5	11.9	0.9	14.2	3	119
CS-S11b	0	bT	1.56	59	19	<24	0.073	31	89	0.017	0.7	11.4	1.1	12.0	3	67
CS-S12	0	bT	1.84	66	33	<22	0.077	23	170	0.012	1.1	15.8	0.9	12.8	3	79
CS-S13a	0	aT	1.50	126	13	<34	0.316	83	245	0.008	0.8	26.8	1.6	25.7	6	18
CS-S13b	0	bT	1.69	60	14	<27	0.153	35	132	0.024	0.9	12.3	1.1	13.7	3	82
CS-S14a	0	aT	2.48	54	17	<20	0.043	33	230	0.007	0.8	12.7	0.2	15.6	6	58
CS-S14b	0	bT	2.39	48	12	<22	0.034	36	191	0.005	1.0	12.3	0.8	15.3	5	42
CS-T01	0	bT	1.51	49	38	127	0.051	21	125	0.007	0.9	17.5	0.2	11.9	2	79
CS-T02	0	bT	1.51	35	31	<21	0.046	21	105	0.007	0.6	11.8	0.5	8.4	2	75
CS-T03	0	bT	1.36	37	33	<25	0.051	19	134	0.006	0.8	14.8	0.3	9.0	3	68
CS-T04	0	bT	1.31	29	29	<23	0.048	22	172	0.009	1.0	11.6	0.4	6.9	4	54
CS-T05	0	bT	1.44	38	26	<22	0.064	30	182	0.010	1.0	10.7	0.6	8.5	5	49
CS-T06	0	bT	1.46	40	28	<23	0.054	23	137	0.004	0.9	12.9	0.3	9.5	5	60
CS-T07	0	bT	1.41	27	35	<20	0.050	18	91	0.007	0.8	11.3	0.5	7.0	2	79
CS-T08	0	bT	1.51	44	33	<29	0.079	49	139	0.010	1.1	18.4	0.9	11.1	3	78
CS-T09	0	aT	1.86	62	23	<25	0.191	50	123	0.005	0.9	17.1	1.1	15.6	4	107
CS-T10	0	bT	1.49	42	42	<28	0.044	25	83	0.005	0.9	15.8	0.5	9.6	2	85
CS-T11	0	bT	1.98	48	31	<28	0.117	35	143	0.011	1.0	18.0	0.8	10.8	2	127
CS-T12	0	bT	2.18	62	22	<23	0.118	25	92	0.004	<0.1	14.3	0.8	13.9	2	114
CS-T13	0	bT	2.13	53	24	<25	0.090	26	152	0.012	0.7	14.1	0.6	12.7	2	100
CS-T14	0	bT	2.00	42	23	<20	0.147	25	120	0.011	1.1	15.5	0.8	10.6	4	141
CS-T14	8	bT	2.17	40	21	<25	0.149	26	154	0.006	1.1	16.5	0.7	11.2	4	146
CS-V01	1	dT	1.86	71	10	<24	0.052	33	262	0.002	1.6	8.8	0.6	15.6	4	22
CS-V01	2	dT	1.70	65	9	<31	0.061	37	317	<0.001	1.5	9.2	0.5	13.5	4	28
CS-V02	0	bT	1.56	31	24	<20	0.049	24	136	0.008	0.8	8.5	0.4	6.4	3	60
CS-V03	0	bT	1.19	38	40	<24	0.059	26	134	0.005	0.8	13.1	0.6	8.1	4	50
CS-V04	0	bT	1.37	46	38	<26	0.045	23	154	0.004	0.8	16.5	0.3	10.5	4	61
CS-V05	0	bT	1.61	34	27	<20	0.040	22	115	0.008	0.8	9.3	0.3	8.1	3	61
CS-V06a	0	aT	2.11	45	19	<20	0.075	26	138	0.004	0.8	9.1	0.4	10.6	5	59
CS-V06b	0	bT	1.38	36	37	<24	0.072	25	138	0.005	0.8	13.2	0.4	8.0	4	49
CS-V07	0	bT	1.59	44	20	<24	0.050	31	112	0.012	0.9	12.0	0.8	8.9	3	60
CS-V08-1	0	aT	1.46	46	29	<20	0.068	24	107	0.006	0.8	11.9	0.6	10.6	3	75
CS-V08-2	0	bT	1.20	55	33	<32	0.123	81	174	0.008	1.5	19.0	0.6	12.8	7	109
CS-V08-2	8	bT	1.38	61	42	<37	0.106	80	174	0.006	0.8	21.0	1.0	14.4	6	92
CS-V09	0	bT	1.22	34	46	<28	0.099	63	115	0.014	2.0	20.6	0.8	9.1	6	112
CS-V10	0	bT	1.00	29	40	<26	0.151	140	79	0.060	2.2	14.6	2.2	7.4	6	100
CS-V11-1	0	aT	1.48	35	35	<20	0.122	39	70	0.014	1.6	12.4	0.8	8.8	2	121
CS-V11-2	0	bT	1.31	43	44	101	0.088	37	97	0.007	2.2	15.4	0.6	9.6	2	93
CS-V12	0	bT	1.82	45	35	136	0.124	31	128	0.008	1.4	15.9	0.5	10.6	2	144
CS-V13	0	bT	1.47	38	55	<24	0.075	41	115	0.016	4.4	15.5	1.0	8.8	2	131
CS-V14	0	bT	1.96	41	32	<25	0.110	18	133	0.015	1.1	14.6	0.7	11.0	2	139

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Na # %	Nd # ppm	Ni @ ppm	Ni # ppm	P @ %	Pb @ ppm	Rb # ppm	S @ %	Sb # ppm	Sc # ppm	Se $ ppm	Sm # ppm	Sn $.@ ppm	Sr @ ppm
CS-W01	0	bT	1.50	32	43	<27	0.069	25	110	0.004	0.9	15.4	0.6	8.5	3	110
CS-W02	0	bT	1.50	35	33	<22	0.053	29	131	0.006	0.9	11.9	0.5	7.5	3	85
CS-W03	0	bT	1.25	35	32	<23	0.053	27	154	0.004	1.0	11.1	0.4	7.5	3	61
CS-W04	0	bT	1.10	25	36	<21	0.044	23	97	0.004	1.2	11.9	0.4	6.5	3	60
CS-W04.5	0	bT	1.42	30	29	<20	0.048	20	104	0.006	0.8	10.0	0.3	7.0	2	67
CS-W05	0	bT	1.17	32	42	<24	0.049	26	133	0.004	1.2	13.5	0.4	6.9	3	52
CS-W06	0	bT	0.79	42	33	<25	0.043	37	140	0.004	6.0	15.2	0.5	9.6	2	43
CS-W07	0	bT	0.99	38	33	<25	0.050	124	131	0.023	3.3	14.7	1.0	8.9	3	51
CS-W08	0	bT	1.21	38	26	<20	0.065	71	97	0.021	4.4	11.4	1.0	8.9	4	80
CS-W09	0	bT	1.19	29	49	<27	0.049	24	85	0.005	2.0	16.6	0.5	7.3	1	64
CS-W10a	0	aT	0.97	62	58	<28	0.093	62	96	0.014	3.7	19.3	0.7	13.9	4	72
CS-W10b	0	bT	1.21	36	44	<25	0.082	60	106	0.012	2.2	15.6	0.6	7.3	5	113
CS-W11	0	bT	1.22	34	43	<29	0.057	37	114	0.005	1.7	16.0	0.6	6.8	4	86
CS-W12	0	bT	1.43	39	21	<22	0.106	27	103	0.009	2.0	11.3	0.8	8.1	2	149
CS-W13	0	bT	1.34	46	36	<27	0.080	30	137	0.002	3.5	16.4	0.6	9.2	2	101
CS-W14	0	bT	1.69	48	32	<30	0.070	23	150	0.009	3.1	16.6	0.8	11.2	3	107
CS-X12	0	bT	1.46	28	19	<27	0.105	41	184	0.012	4.7	13.5	0.8	6.2	4	122
CS-X13	0	bT	1.61	43	24	168	0.102	40	162	0.006	2.3	16.8	0.9	9.4	3	141
CS-X14	0	bT	1.56	45	28	<32	0.094	31	169	0.006	2.6	15.7	0.8	8.9	2	117

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ta # ppm	Tb # ppm	Te $ ppm	Th # ppm	Ti @ %	Tl $ ppm	U # ppm	V @ ppm	W # ppm	Y @ ppm	Yb # ppm	Zn @ ppm	Zn # ppm	Mass g
CS-H02	0	bT	1.5	<0.5	<0.1	8.7	0.60	0.8	2.3	93	<1	12	2.7	101	95	19.43
CS-H03	0	bT	<0.5	<0.5	<0.1	9.7	0.54	0.7	2.9	78	<1	10	3.2	80	83	22.67
CS-H04	0	bT	<0.5	<0.5	0.1	8.7	0.60	0.5	2.4	73	<1	12	2.9	58	117	32.13
CS-H05	0	bT	1.4	0.6	<0.1	10.0	0.64	0.5	2.7	89	3	19	3.1	73	100	23.08
CS-H06	0	bT	<0.5	0.9	0.1	10.6	0.62	0.7	2.1	109	<1	42	4.0	81	89	20.14
CS-H07	0	bT	<0.5	<0.5	<0.1	10.9	0.51	0.6	3.3	89	<1	12	2.8	86	137	21.65
CS-H08	0	bT	2.3	1.6	<0.1	14.5	1.10	0.6	4.5	166	<1	23	6.9	130	155	27.88
CS-H10	0	bT	<0.5	<0.5	<0.1	11.5	0.34	0.4	3.8	51	<1	13	3.3	55	69	30.13
CS-H11	0	bT	2.1	1.0	<0.1	12.5	0.46	0.3	3.0	58	<1	25	4.1	79	107	27.07
CS-H11	8	bT	<0.5	1.4	<0.1	11.6	0.63	0.3	2.4	73	<1	26	4.7	78	99	28.22
CS-H12	0	bT	1.1	0.8		13.0	0.37		3.3	118	<1	18	4.0	70	78	18.50
CS-H13	0	bT	1.9	1.8		14.6	0.53		3.0	112	5	52	6.3	71	107	22.61
CS-H13	8	bT	<0.5	1.2	<0.1	13.0	0.58	1.0	2.0	91	<1	51	5.4	72	124	23.06
CS-H14	0	bT?	1.0	<0.5		13.2	0.41		2.1	76	5	31	3.8	67	92	23.89
CS-H14	8	bT?	1.4	0.7	0.1	13.1	0.46	1.3	2.8	67	4	34	3.6	67	81	23.04
CS-H15	0	bT	0.9	1.3		15.2	0.49		3.4	103	6	40	5.6	69	69	24.16
CS-H15	8	bT	1.6	1.1	<0.1	14.8	0.58	0.7	3.1	90	4	36	5.1	68	78	21.49
CS-K02	0	bT	1.2	0.5	<0.1	11.0	0.61	1.2	1.9	100	<1	10	3.4	180	203	19.28
CS-K03	0	bT	0.7	1.0	<0.1	10.5	0.59	1.0	2.6	107	<1	15	3.9	143	214	20.49
CS-K04	0	bT	<0.5	<0.5	<0.1	9.6	0.46	0.8	2.3	76	<1	9	3.3	113	129	23.50
CS-K05	1	bT	1.6	0.8	<0.1	10.7	0.59	0.9	3.1	85	<1	12	3.3	127	122	20.36
CS-K05	2	bT	<0.5	<0.5	<0.1	10.4	0.84	0.9	2.0	109	<1	46	3.8	155	139	22.47
CS-K05	2,8	bT	<0.5	<0.5	<0.1	8.9	0.61	0.9	<0.5	95	<1	37	3.1	127	130	25.68
CS-K06	0	bT	2.5	1.3	<0.1	19.8	0.41	0.8	3.3	39	9	48	6.4	85	101	31.66
CS-K07	0	bT	1.1	1.2	<0.1	16.0	0.79	0.5	3.9	101	<1	64	3.9	69	66	29.25
CS-K08	0	bT	2.0	<0.5	<0.1	10.2	0.48	0.4	3.0	61	<1	19	3.2	52	<50	32.64
CS-K09-1	0	GL	1.4	0.8	<0.1	10.0	0.56	0.5	2.7	72	<1	13	3.4	59	65	30.05
CS-K09-2	0	GF	1.3	1.0	0.1	13.1	0.52	0.6	2.7	75	5	13	3.7	66	57	22.16
CS-K09-3	0	bT	1.9	1.0	0.1	13.9	0.62	0.7	3.5	72	3	23	4.1	53	<50	27.21
CS-K11	0	bT	0.8	1.0	<0.1	13.7	0.66	0.7	4.0	91	7	18	4.4	72	93	19.75
CS-K12	0	bT	1.0	0.8	0.1	10.6	0.43	0.4	2.5	68	<1	10	3.8	53	60	30.99
CS-K13	0	bT	1.1	0.9		11.7	0.46		3.3	130	<1	31	4.5	55	69	24.59
CS-K14	0	bT	1.5	<0.5		12.6	0.42		3.4	77	5	23	3.5	74	88	25.14
CS-L02	0	bT	1.2	0.8	<0.1	9.3	0.59	0.6	3.1	78	<1	9	3.2	79	100	23.39
CS-L02	8	bT	1.5	<0.5	<0.1	10.0	0.57	0.6	2.4	73	2	9	3.0	80	116	25.89
CS-L03	0	bT	<0.5	<0.5	<0.1	9.0	0.51	2.4	3.5	70	<1	18	3.1	148	116	34.95
CS-L04	0	bT	1.2	0.7	<0.1	9.1	0.49	0.5	3.0	68	<1	16	3.1	73	<50	30.05
CS-L05	0	bT	<0.5	0.7	<0.1	10.1	0.53	0.5	2.4	74	<1	13	3.7	72	83	24.60
CS-L06	0	bT	1.4	0.9	<0.1	10.0	0.59	0.5	2.1	73	2	17	4.0	76	83	30.67
CS-L07	0	bT	1.0	1.2	<0.1	10.6	0.54	0.4	2.5	83	<1	18	3.5	77	86	31.65
CS-L08	0	bT	<0.5	0.8	<0.1	7.8	0.46	0.3	2.7	65	<1	12	2.6	58	<50	30.25
CS-L09	0	bT	<0.5	1.2	<0.1	9.4	0.64	0.3	3.5	86	<1	26	3.5	58	<50	30.44
CS-L10	0	bT	<0.5	1.7	<0.1	9.8	1.12	0.5	3.3	167	<1	123	5.4	75	87	29.55
CS-L11	0	bT	1.0	1.0	<0.1	14.7	0.69	0.6	3.7	95	5	27	6.0	61	80	22.62
CS-L12a	0	bT	0.8	1.1	<0.1	10.8	0.47	0.5	2.9	82	<1	12	3.9	69	66	22.17
CS-L12b	0	bT	1.4	0.9	<0.1	11.0	0.57	0.6	3.0	101	<1	15	4.0	34	65	20.08
CS-L13	0	bT	1.6	0.7		12.6	0.41		2.5	95	<1	17	3.9	83	103	24.86

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ta # ppm	Tb # ppm	Te $ ppm	Th # ppm	Ti @ %	Tl $ ppm	U # ppm	V @ ppm	W # ppm	Y @ ppm	Yb # ppm	Zn @ ppm	Zn # ppm	Mass g
CS-L14	0	bT	1.6	0.9		14.8	0.40		3.0	71	8	24	4.4	65	97	22.98
CS-L14	8	bT	1.6	0.9	<0.1	13.9	0.47	1.1	2.0	62	8	33	4.4	65	98	20.62
CS-M02	0	bT	<0.5	0.7	<0.1	9.5	0.85	0.4	2.4	106	<1	35	3.1	61	<50	31.75
CS-M03	0	bT	1.9	1.0	<0.1	9.9	1.23	0.4	2.8	160	<1	50	3.7	67	77	31.67
CS-M04	0	bT	<0.5	<0.5	<0.1	10.1	0.46	0.5	2.4	60	<1	26	3.6	57	68	28.47
CS-M05	0	bT	<0.5	<0.5	<0.1	10.6	0.87	0.5	3.0	136	<1	42	3.3	84	56	27.50
CS-M06	0	bT	1.6	0.8	<0.1	9.6	0.48	0.4	1.7	71	3	16	3.4	69	76	31.30
CS-M07	0	bT	1.6	<0.5	0.2	13.7	0.52	0.5	3.1	98	<1	15	3.5	95	140	26.79
CS-M08	0	bT	<0.5	0.9	0.2	11.3	0.54	0.4	3.1	84	<1	22	3.5	61	84	24.80
CS-M09a	0	bT	<0.5	<0.5	<0.1	14.2	0.32	0.3	3.3	67	<1	22	3.4	73	74	18.01
CS-M09b	0	bT	<0.5	0.5	<0.1	9.9	0.80	0.4	2.9	104	<1	33	4.0	53	65	27.97
CS-M10	0	bT	<0.5	0.9	<0.1	8.3	0.45	0.3	1.6	84	2	13	2.5	61	<50	25.65
CS-M11	0	bT	1.8	<0.5	<0.1	9.9	0.51	0.4	2.2	97	<1	18	4.3	64	100	17.30
CS-M12	0	bT	0.8	1.0	<0.1	11.5	0.53	0.5	2.9	74	6	11	4.6	52	85	19.87
CS-M13	0	bT	1.5	1.0	<0.1	12.1	0.54	0.7	3.8	101	<1	8	4.8	58	114	15.28
CS-M14	0	bT	1.2	1.0	<0.1	11.3	0.40	0.5	2.8	56	4	15	4.6	53	71	31.12
CS-N02	0	bT	<0.5	1.1	<0.1	11.8	0.63	0.5	3.2	142	<1	32	3.2	94	108	28.66
CS-N02	8	bT	1.1	1.2	<0.1	11.5	1.03	0.6	2.9	195	<1	48	3.1	96	130	27.32
CS-N03	0	bT	<0.5	0.8	<0.1	10.6	0.68	0.4	3.5	94	<1	24	2.9	60	91	27.54
CS-N04	1	bT	0.9	<0.5	<0.1	7.7	0.53	0.3	2.5	103	<1	33	3.4	56	108	27.02
CS-N04	2	bT	<0.5	0.8	<0.1	7.9	0.49	0.3	<0.5	108	<1	23	3.0	66	62	26.31
CS-N05	0	bT	<0.5	0.9	<0.1	9.5	0.62	0.3	2.2	131	<1	33	3.3	66	74	28.90
CS-N06a	0	bT	1.0	<0.5	<0.1	6.8	0.43	0.3	4.0	121	<1	15	2.9	55	76	20.03
CS-N06b	1	bT	<0.5	1.4	<0.1	10.4	0.60	0.5	1.6	151	9	31	4.3	91	84	20.43
CS-N06b	2	bT	<0.5	<0.5	<0.1	8.8	0.50	0.6	2.3	116	<1	22	3.0	75	115	23.46
CS-N07	0	bT	<0.5	2.1	<0.1	9.5	1.08	0.6	3.8	295	<1	43	6.8	106	144	22.68
CS-N08-1	0	bT	<0.5	<0.5	0.1	10.8	0.50	0.4	1.4	137	<1	10	3.3	78	108	17.17
CS-N08-2	0	bT	<0.5	1.3	<0.1	10.6	0.50	0.3	2.4	111	<1	34	4.2	74	91	16.90
CS-N09	0	bT	1.4	1.1	<0.1	10.6	0.59	0.4	3.3	111	<1	18	3.6	58	<50	26.29
CS-N10	0	bT	1.1	<0.5	<0.1	14.1	0.53	0.4	2.8	73	<1	12	3.6	61	64	25.30
CS-N11-1	0	bT	<0.5	0.9	<0.1	6.7	0.80	0.3	2.2	178	<1	24	3.6	58	115	25.21
CS-N11-2	0	bT	<0.5	1.1	<0.1	8.0	0.70	0.3	1.5	149	<1	22	4.3	57	<50	22.57
CS-N12	0	bT	1.0	<0.5	<0.1	12.0	0.69	0.6	2.0	119	<1	12	3.9	158	179	19.19
CS-N12	8	bT	1.6	<0.5	<0.1	12.6	0.65	0.6	2.6	135	<1	18	3.5	159	184	20.41
CS-N13	0	bT	1.3	1.3	<0.1	15.9	0.69	0.6	3.2	84	5	10	5.1	64	98	22.26
CS-N14	0	bT	1.0	1.0	0.1	12.7	0.55	0.7	2.6	92	5	13	4.3	60	79	17.25
CS-P01	0	bT	1.3	1.1	<0.1	12.1	0.49	0.5	2.1	72	<1	17	3.6	52	62	33.45
CS-P02	0	bT	1.1	0.9	<0.1	11.9	0.50	0.5	<0.5	86	<1	11	3.1	73	110	25.18
CS-P03	0	bT	<0.5	0.9	<0.1	14.5	0.53	0.5	3.8	84	<1	15	4.2	57	65	27.08
CS-P04	0	bT	<0.5	<0.5	<0.1	13.2	0.53	0.5	3.4	88	<1	20	3.6	55	73	28.09
CS-P05	0	bT	1.3	1.2	<0.1	11.2	0.75	0.5	2.2	120	<1	18	4.3	74	89	24.60
CS-P06	0	bT	3.0	3.1	<0.1	48.5	0.59	0.7	8.8	90	20	22	12.3	92	111	23.34
CS-P06	8	bT	<0.5	2.8	<0.1	41.2	0.55	0.9	7.3	98	21	25	9.6	88	131	21.85
CS-P07	0	bT	<0.5	1.2	0.1	11.1	0.72	0.3	2.6	124	<1	21	4.4	65	85	26.85
CS-P08	0	bT	3.1	3.5	<0.1	46.1	0.60	0.7	9.5	81	<1	32	15.2	79	57	23.98
CS-P08	8	bT	<0.5	3.0	<0.1	44.5	0.58	0.9	8.1	92	<1	28	13.2	76	<50	24.20
CS-P09	0	bT	1.4	0.9	<0.1	8.7	0.78	0.3	2.4	116	<1	18	3.5	57	<50	26.94

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ta # ppm	Tb # ppm	Te $ ppm	Th # ppm	Ti @ %	Tl $ ppm	U # ppm	V @ ppm	W # ppm	Y @ ppm	Yb # ppm	Zn @ ppm	Zn # ppm	Mass g
CS-P10	0	bT	1.0	0.9	<0.1	10.7	0.71	0.3	3.0	112	<1	20	3.6	60	72	28.63
CS-P11	0	bT	1.2	0.7	<0.1	7.8	0.85	0.2	<0.5	147	2	29	3.8	52	<50	32.75
CS-P12	0	bT	1.3	0.9	<0.1	10.7	0.74	0.3	3.7	124	<1	23	3.7	59	105	23.06
CS-P13	0	bT	2.0	0.9	<0.1	11.7	1.03	0.6	3.2	106	<1	28	4.2	79	135	20.28
CS-P14	0	bT	0.8	0.8	<0.1	8.3	0.81	0.3	2.2	135	<1	24	3.4	72	91	23.91
CS-Q01	0	bT	1.3	1.0	<0.1	18.2	0.72	0.8	4.3	130	<1	15	3.9	89	79	23.67
CS-Q02	0	bT	<0.5	<0.5	<0.1	18.1	0.63	0.6	2.9	100	<1	25	3.8	58	84	26.97
CS-Q03	0	bT	1.3	<0.5	<0.1	14.6	0.61	0.7	4.6	103	<1	13	2.8	73	65	25.35
CS-Q04	0	bT	1.4	<0.5	<0.1	13.5	0.59	0.7	3.3	93	<1	15	2.7	72	64	26.93
CS-Q05	0	bT	<0.5	1.4	<0.1	17.3	0.62	0.8	6.5	91	<1	26	4.1	73	91	22.04
CS-Q05	8	bT	3.2	1.4	<0.1	20.9	0.63	0.7	8.1	92	9	22	5.4	74	93	23.09
CS-Q06	0	bT	<0.5	<0.5	<0.1	14.0	0.60	0.6	3.1	98	5	22	3.5	71	<50	23.68
CS-Q07	0	bT	1.8	1.6	<0.1	15.6	0.62	0.7	5.6	122	<1	23	4.1	87	<50	14.95
CS-Q08	0	bT	1.9	1.7	<0.1	30.4	0.49	0.7	6.6	87	<1	32	6.7	66	115	29.49
CS-Q09	0	mT	2.0	2.2	<0.1	29.1	0.63	0.5	4.7	92	<1	34	6.4	55	<50	28.84
CS-Q10	0	bT	1.7	1.8	<0.1	23.1	0.57	0.6	5.9	98	<1	27	5.8	67	103	21.36
CS-Q11	0	bT	<0.5	1.1	<0.1	10.9	0.70	0.2	4.5	189	<1	29	4.2	75	121	25.76
CS-Q11	8	bT	1.5	1.4	<0.1	10.7	0.71	0.3	3.0	163	<1	25	4.3	75	75	26.23
CS-Q12	0	aT	1.5	2.5	<0.1	28.1	0.82	0.4	7.5	150	<1	42	13.3	60	95	30.67
CS-Q13	0	bT	3.8	2.0	<0.1	25.6	0.45	1.0	9.7	63	5	29	11.3	59	<50	27.66
CS-Q13	8	bT	3.4	1.9	<0.1	22.0	0.34	1.0	8.3	65	<1	25	9.1	52	56	26.55
CS-Q14a	0	aT	1.9	2.5	0.2	24.4	0.61	0.8	4.7	100	7	29	9.0	52	<50	28.78
CS-Q14b	0	bT	<0.5	0.8	<0.1	16.0	0.64	0.6	2.6	98	4	32	4.4	73	89	22.83
CS-R01	0	bT	2.2	1.6	0.1	22.2	0.55	0.7	4.0	73	15	27	7.0	73	<50	22.28
CS-R01	8	bT	1.2	1.4	<0.1	18.2	0.59	0.7	3.0	86	<1	22	4.8	56	68	21.74
CS-R02	0	bT	1.4	<0.5	<0.1	14.8	0.62	0.7	4.3	106	<1	19	3.7	74	75	24.92
CS-R03	0	bT	1.7	<0.5	<0.1	11.4	0.38	0.5	3.4	78	<1	22	3.5	56	<50	28.04
CS-R04	0	bT	3.2	0.8	<0.1	15.7	0.43	1.0	5.1	69	<1	16	3.5	65	<50	28.05
CS-R05	0	bT	3.0	1.3	<0.1	28.5	0.13	1.8	18.5	42	<1	11	4.7	77	<50	14.84
CS-R06	0	bT	1.8	0.6	<0.1	11.5	0.66	0.7	3.3	107	<1	17	2.9	90	99	24.38
CS-R07	0	bT	1.4	<0.5	<0.1	16.4	0.56	0.7	4.3	95	<1	18	3.8	67	51	22.78
CS-R08	0	bT	<0.5	1.8	<0.1	30.6	0.68	0.8	6.6	114	<1	38	5.9	88	71	24.82
CS-R09	0	bT	<0.5	<0.5	<0.1	31.0	0.38	0.7	3.4	64	<1	16	5.0	61	<50	24.03
CS-R10	0	bT	<0.5	<0.5	<0.1	27.1	0.51	0.5	5.6	73	<1	26	5.6	50	94	26.95
CS-R11	0	aT	3.1	2.4	<0.1	46.2	0.40	1.0	46.2	61	8	42	8.5	76	93	25.15
CS-R12	0	aT	1.7	2.7	0.1	44.6	0.36	0.8	44.6	69	6	38	9.3	75	<50	25.88
CS-R13	0	bT	5.4	3.9	0.1	38.8	0.48	1.4	38.8	80	<1	51	17.6	97	94	21.94
CS-R13	8	bT	4.5	3.6	<0.1	38.5	0.40	1.2	19.3	83	<1	33	14.8	80	96	20.54
CS-R14a	0	aT	4.4	2.6	0.2	36.9	0.41	1.5	36.9	51	6	36	14.3	96	71	21.67
CS-R14b	0	bT	2.9	<0.5	<0.1	23.7	0.48	1.0	11.3	72	<1	16	6.7	64	<50	26.35
CS-S01	0	bT	1.4	<0.5	<0.1	16.2	0.60	0.6	3.6	107	<1	11	3.7	92	65	24.56
CS-S02	1	bT	4.7	1.4	<0.1	25.3	0.29	2.3	6.4	31	<1	8	3.5	79	<50	25.63
CS-S02	2	bT	4.1	<0.5	<0.1	17.5	0.26	3.0	5.5	31	6	28	2.5	77	101	26.47
CS-S03	0	bT	1.9	<0.5	<0.1	19.6	0.66	0.7	6.8	108	6	19	5.0	78	115	27.74
CS-S04	0	bT	5.0	<0.5	<0.1	20.5	0.48	1.3	14.6	58	<1	14	3.5	95	122	21.55
CS-S05	0	bT	1.9	0.9	<0.1	13.8	0.54	0.7	5.2	77	<1	17	3.0	63	68	28.50
CS-S05	8	bT	<0.5	<0.5	<0.1	15.2	0.55	0.7	5.4	79	<1	12	3.5	61	<50	29.31

Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Material	Ta # ppm	Tb # ppm	Te $ ppm	Th # ppm	Ti @ %	Tl $ ppm	U # ppm	V @ ppm	W # ppm	Y @ ppm	Yb # ppm	Zn @ ppm	Zn # ppm	Mass g
CS-S06	0	bT	3.2	2.3	<0.1	38.1	0.28	1.5	13.8	43	<1	22	6.2	62	<50	21.35
CS-S07	0	bT	2.2	<0.5	<0.1	17.4	0.57	0.9	4.8	87	<1	16	3.5	72	101	25.91
CS-S08a	0	aT	<0.5	2.1	<0.1	30.3	0.65	0.7	7.2	107	<1	36	6.7	68	60	27.09
CS-S08b	0	bT	1.9	1.4	<0.1	16.5	0.71	0.9	6.2	114	<1	25	4.9	78	105	17.67
CS-S09	0	bT	<0.5	1.1	<0.1	18.7	0.58	0.7	4.2	84	7	25	4.0	57	81	28.71
CS-S10	0	bT	2.4	<0.5	<0.1	23.3	0.65	0.9	5.6	93	<1	23	4.2	80	107	20.27
CS-S11a	0	aT	2.0	2.1	<0.1	39.8	0.50	0.9	5.6	65	<1	51	7.5	74	<50	29.24
CS-S11b	0	bT	1.9	<0.5	<0.1	30.3	0.51	0.6	7.7	68	<1	19	5.0	77	<50	25.45
CS-S12	0	bT	3.5	1.7	<0.1	37.2	0.55	1.1	8.7	79	<1	33	7.4	90	79	20.73
CS-S13a	0	aT	1.3	2.6	<0.1	57.2	0.91	1.4	14.8	122	10	62	9.1	102	<50	25.98
CS-S13b	0	bT	3.0	1.4	<0.1	35.7	0.58	0.8	6.0	70	<1	42	5.4	54	<50	21.36
CS-S14a	0	aT	4.7	3.8	<0.1	41.6	0.37	1.5	13.1	48	6	47	17.1	83	83	26.99
CS-S14b	0	bT	4.1	3.4	<0.1	36.0	0.39	1.2	13.6	46	<1	27	15.0	63	77	31.52
CS-T01	0	bT	<0.5	1.4	<0.1	17.1	0.63	0.7	6.6	99	<1	28	5.8	63	113	25.12
CS-T02	0	bT	1.5	<0.5	<0.1	15.9	0.53	0.6	4.6	75	5	17	4.3	52	<50	31.60
CS-T03	0	bT	2.8	1.0	<0.1	16.9	0.56	0.7	9.2	81	<1	16	4.0	66	94	22.57
CS-T04	0	bT	2.3	<0.5	<0.1	14.0	0.47	0.9	4.5	77	<1	12	3.1	63	84	25.72
CS-T05	0	bT	2.8	<0.5	<0.1	18.8	0.32	1.2	6.5	57	<1	10	3.3	74	85	25.01
CS-T06	0	bT	2.8	1.3	<0.1	17.0	0.52	1.0	7.4	73	<1	18	3.8	66	97	25.05
CS-T07	0	bT	<0.5	0.8	<0.1	13.2	0.56	0.6	3.9	82	8	17	3.6	60	<50	30.81
CS-T08	0	bT	1.7	1.5	<0.1	24.6	0.61	1.1	6.5	109	<1	21	4.2	128	135	22.73
CS-T09	0	aT	1.7	2.1	<0.1	32.7	0.75	1.0	5.4	97	<1	54	6.8	240	242	29.58
CS-T10	0	bT	<0.5	<0.5	<0.1	16.8	0.70	0.8	5.1	103	<1	25	4.1	74	56	20.66
CS-T11	0	bT	2.0	1.3	<0.1	26.8	0.73	0.8	6.6	119	<1	27	4.4	87	140	24.20
CS-T12	0	bT	2.9	1.6	<0.1	28.8	0.55	0.7	6.4	82	<1	41	5.8	55	95	29.92
CS-T13	0	bT	2.2	1.7	<0.1	29.7	0.58	0.7	6.9	84	<1	29	5.2	59	114	26.15
CS-T14	0	bT	2.4	1.7	<0.1	24.8	0.61	1.0	7.5	87	<1	39	7.7	84	83	29.58
CS-T14	8	bT	1.9	1.9	<0.1	23.8	0.69	0.9	7.2	103	<1	40	6.3	67	85	27.95
CS-V01	1	dT	2.8	1.9	<0.1	39.9	0.16	1.3	9.9	28	<1	10	6.7	46	<50	22.92
CS-V01	2	dT	2.5	2.4	<0.1	44.7	0.20	1.8	10.4	29	<1	9	7.2	52	63	19.63
CS-V02	0	bT	2.5	<0.5	<0.1	14.6	0.42	0.9	3.9	53	<1	10	3.3	65	91	31.21
CS-V03	0	bT	2.5	<0.5	<0.1	17.9	0.50	0.9	4.6	83	<1	10	3.7	67	93	23.97
CS-V04	0	bT	1.9	0.9	<0.1	18.6	0.57	0.8	7.6	89	<1	16	4.5	63	70	22.59
CS-V05	0	bT	2.5	1.1	<0.1	17.9	0.47	0.7	4.5	57	<1	10	3.6	58	69	32.36
CS-V06a	0	aT	2.8	1.3	<0.1	22.4	0.41	0.9	6.3	45	6	15	4.8	44	<50	31.61
CS-V06b	0	bT	2.3	1.0	<0.1	16.7	0.47	1.1	5.6	77	<1	10	3.4	70	89	23.40
CS-V07	0	bT	1.7	1.0	<0.1	26.9	0.46	0.9	5.2	69	<1	12	3.5	60	80	23.03
CS-V08-1	0	aT	2.5	1.4	<0.1	19.8	0.62	0.7	6.9	80	11	22	5.7	61	52	31.64
CS-V08-2	0	bT	<0.5	1.6	<0.1	18.7	0.89	1.3	6.4	149	<1	91	4.8	174	226	16.99
CS-V08-2	8	bT	<0.5	<0.5	<0.1	22.2	0.70	1.3	6.1	133	<1	42	5.3	178	225	15.67
CS-V09	0	bT	1.9	1.0	<0.1	12.6	0.74	1.2	4.5	148	81	32	3.8	154	210	23.42
CS-V10	0	bT	<0.5	1.2	<0.1	12.0	0.52	1.0	4.4	148	19	13	3.1	146	203	21.60
CS-V11-1	0	aT	1.6	1.0	<0.1	14.8	0.64	0.6	5.6	102	<1	33	4.1	67	64	30.84
CS-V11-2	0	bT	1.9	1.2	<0.1	15.1	0.71	0.7	6.9	116	<1	26	4.1	82	86	25.57
CS-V12	0	bT	1.4	1.3	<0.1	20.3	0.77	0.6	4.7	126	<1	30	4.5	78	67	28.53
CS-V13	0	bT	2.0	<0.5	<0.1	16.3	0.80	0.8	4.8	140	<1	40	3.8	91	78	27.19
CS-V14	0	bT	1.5	1.7	<0.1	28.3	0.54	0.7	5.7	79	3	34	6.2	73	56	32.25

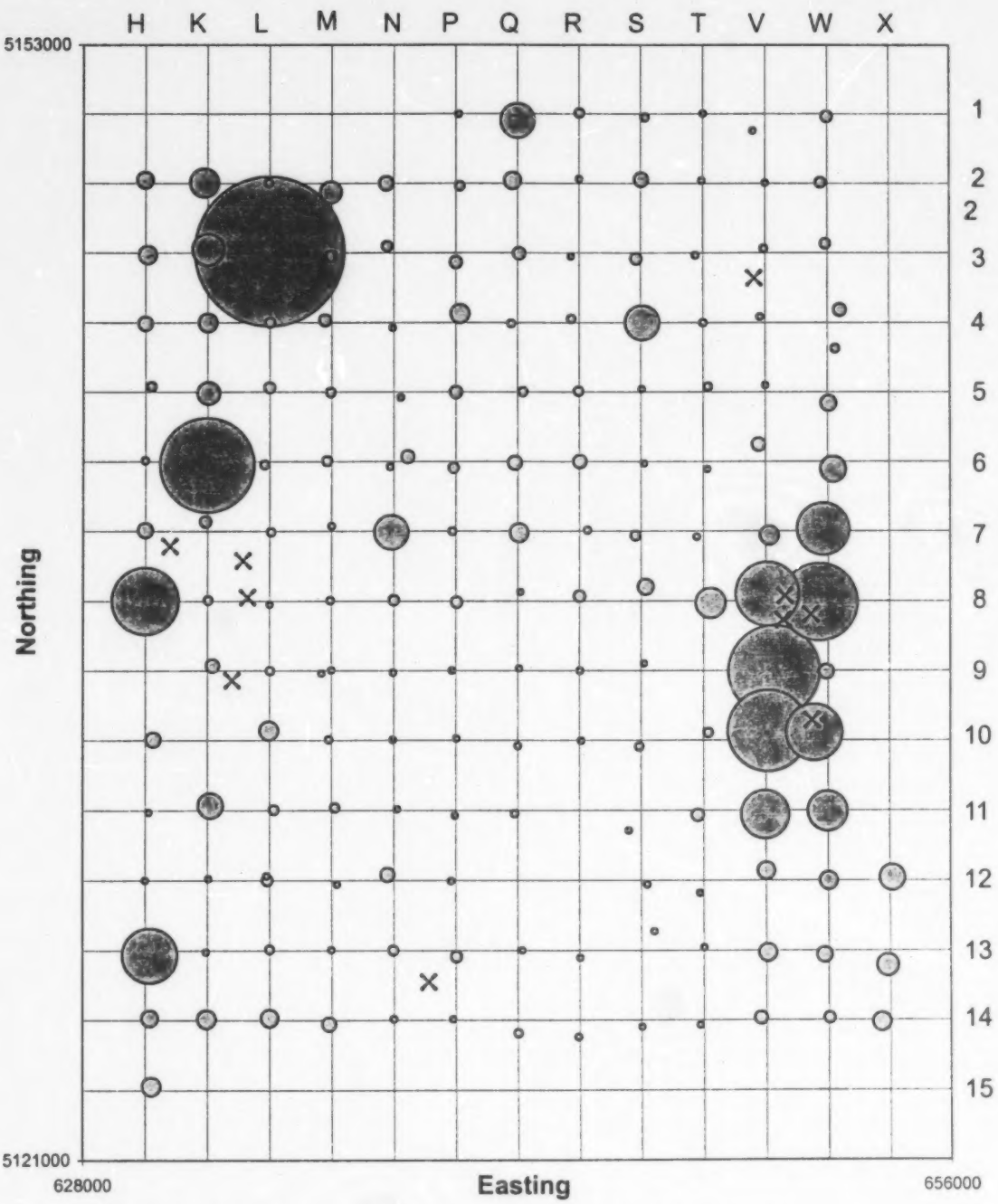
Coldstream (NTS 21 J/06): analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ta # ppm	Tb # ppm	Te $ ppm	Th # ppm	Ti @ %	Tl $ ppm	U # ppm	V @ ppm	W # ppm	Y @ ppm	Yb # ppm	Zn @ ppm	Zn # ppm	Mass g
CS-W01	0	bT	2.3	1.1	<0.1	14.2	0.60	0.8	5.6	112	<1	41	3.9	73	87	22.69
CS-W02	0	bT	2.2	<0.5	<0.1	16.0	0.63	0.8	6.2	84	<1	19	3.8	64	62	27.21
CS-W03	0	bT	1.5	1.0	<0.1	16.6	0.55	1.0	6.2	76	<1	14	3.5	62	98	23.57
CS-W04	0	bT	<0.5	<0.5	<0.1	14.4	0.52	0.8	4.3	84	<1	12	3.2	66	80	27.69
CS-W04.5	0	bT	1.8	<0.5	<0.1	14.8	0.51	0.8	4.8	70	<1	12	3.4	56	61	30.00
CS-W05	0	bT	<0.5	<0.5	<0.1	13.1	0.51	0.9	4.3	89	<1	10	2.7	69	<50	25.34
CS-W06	0	bT	2.1	<0.5	<0.1	14.5	0.66	1.1	5.0	108	<1	13	4.0	84	73	23.31
CS-W07	0	bT	<0.5	1.3	<0.1	15.7	0.60	0.9	4.0	106	<1	13	3.2	112	233	25.26
CS-W08	0	bT	<0.5	1.1	<0.1	17.0	0.57	0.9	4.8	89	31	22	4.4	114	158	32.44
CS-W09	0	bT	<0.5	<0.5	<0.1	12.0	0.60	0.6	<0.5	117	<1	18	3.0	81	219	21.27
CS-W10a	0	aT	<0.5	1.7	0.1	11.1	0.82	0.7	4.0	142	17	43	3.7	105	304	27.17
CS-W10b	0	bT	1.3	0.7	0.1	14.8	0.77	0.8	5.5	130	36	26	4.0	118	149	29.45
CS-W11	0	bT	1.0	1.0	<0.1	15.5	0.63	0.9	3.5	118	10	18	3.6	110	91	21.41
CS-W12	0	bT	1.0	1.1	<0.1	16.6	0.64	0.5	5.5	87	<1	63	4.9	51	51	31.86
CS-W13	0	bT	<0.5	1.5	<0.1	18.8	0.70	0.8	5.7	115	<1	45	4.5	78	91	25.48
CS-W14	0	bT	3.0	1.3	<0.1	26.0	0.58	0.9	7.4	82	3	33	5.2	82	128	23.05
CS-X12	0	bT	2.1	<0.5	<0.1	31.6	0.67	1.2	6.3	103	<1	59	3.4	81	77	25.02
CS-X13	0	bT	3.2	1.4	<0.1	23.6	0.77	0.8	7.2	111	<1	60	5.0	87	87	27.32
CS-X14	0	bT	1.9	1.8	<0.1	21.6	0.80	0.8	8.9	106	<1	56	4.5	75	<50	25.82

Appendix 3. Coldstream (NTS 21 J/06):

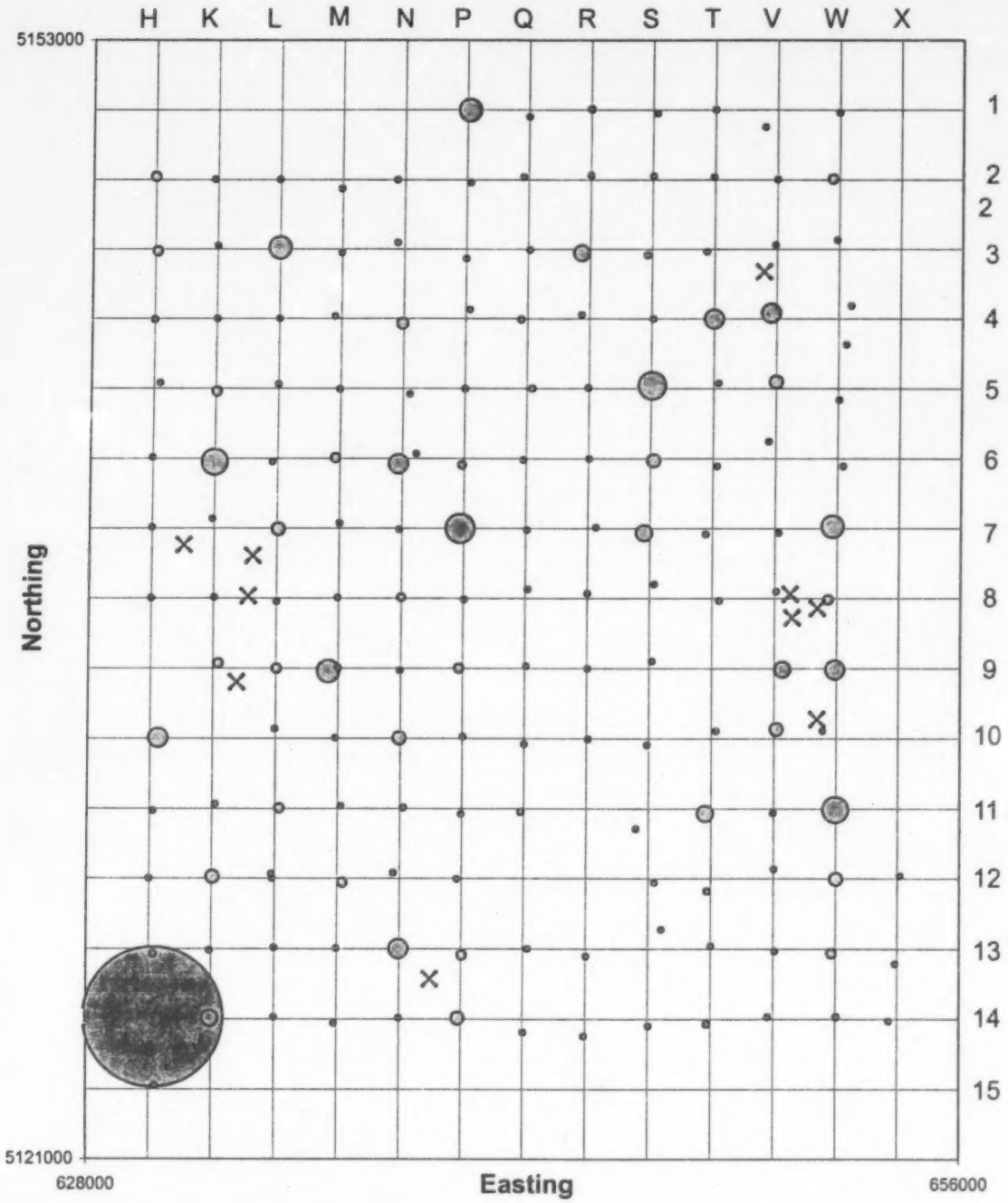
Element Distribution Plots

As (ppm) J/06C&E



(minimum, <11 ppm; maximum, 259 ppm) × mineral occurrence

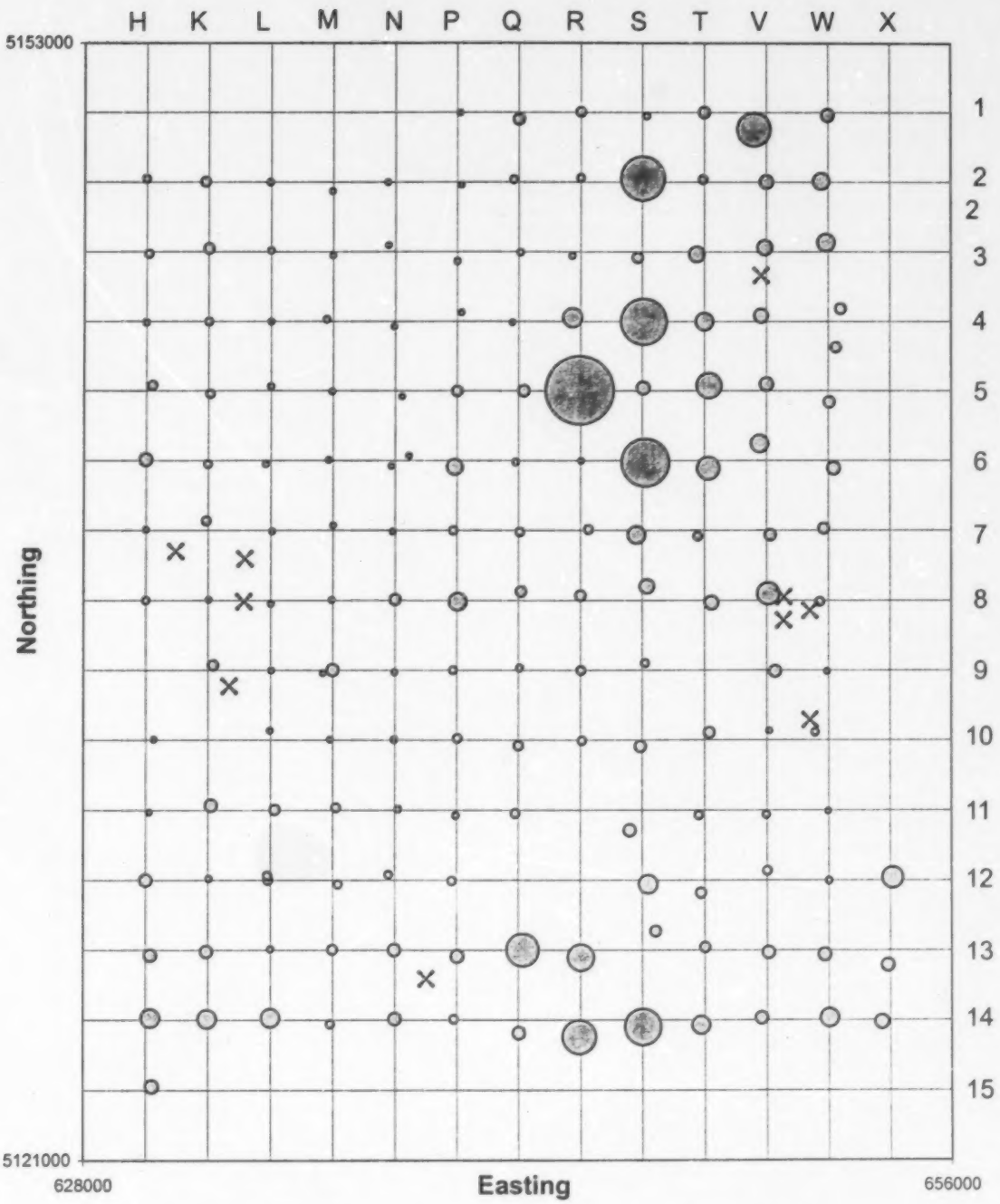
Au (ppb) J/06C&E



(minimum, <2 ppb; maximum, 43 ppb)

× mineral occurrence

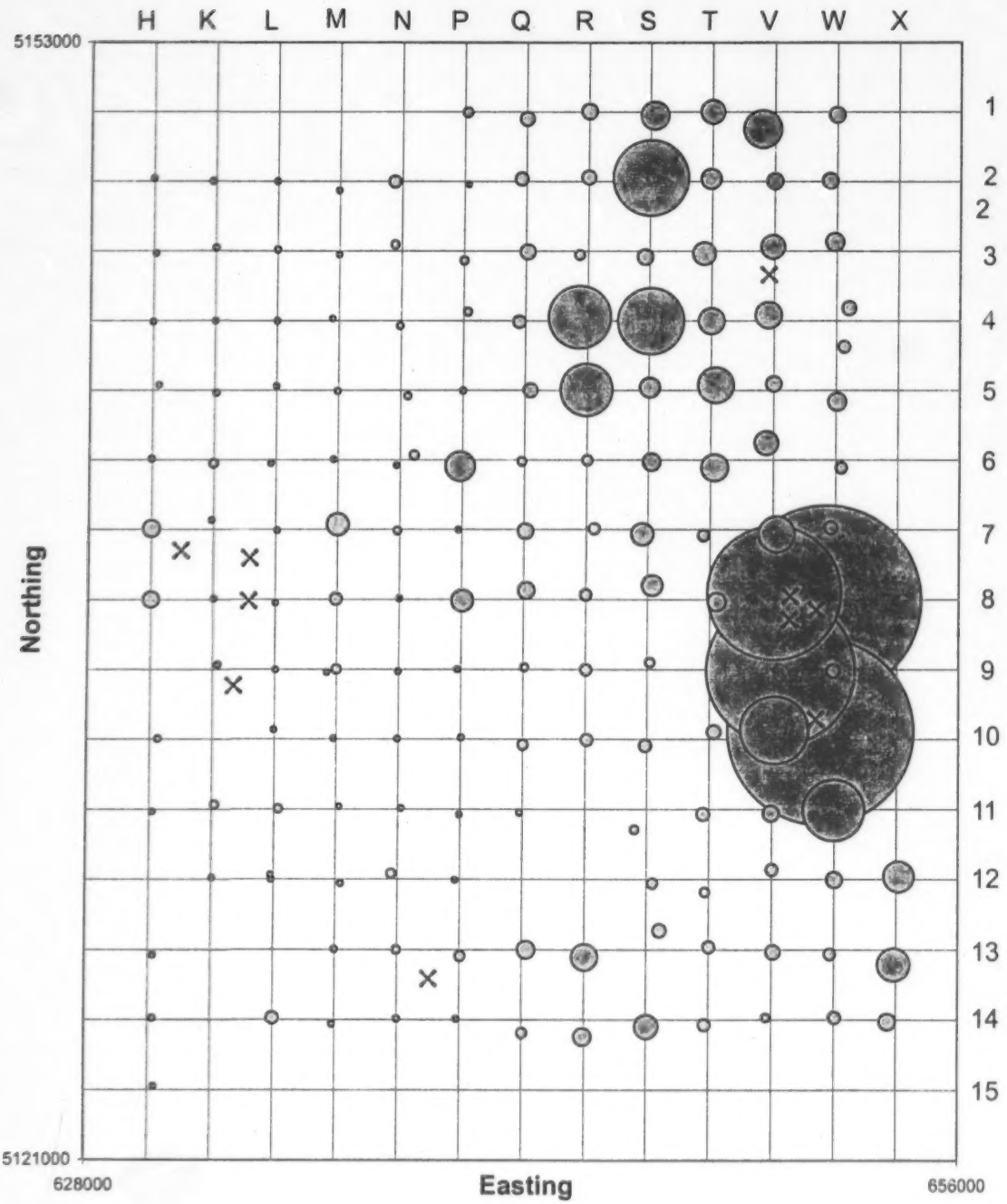
Be (ppm) J/06C&E



(minimum, <1 ppm; maximum, 10.7 ppm)

× mineral occurrence

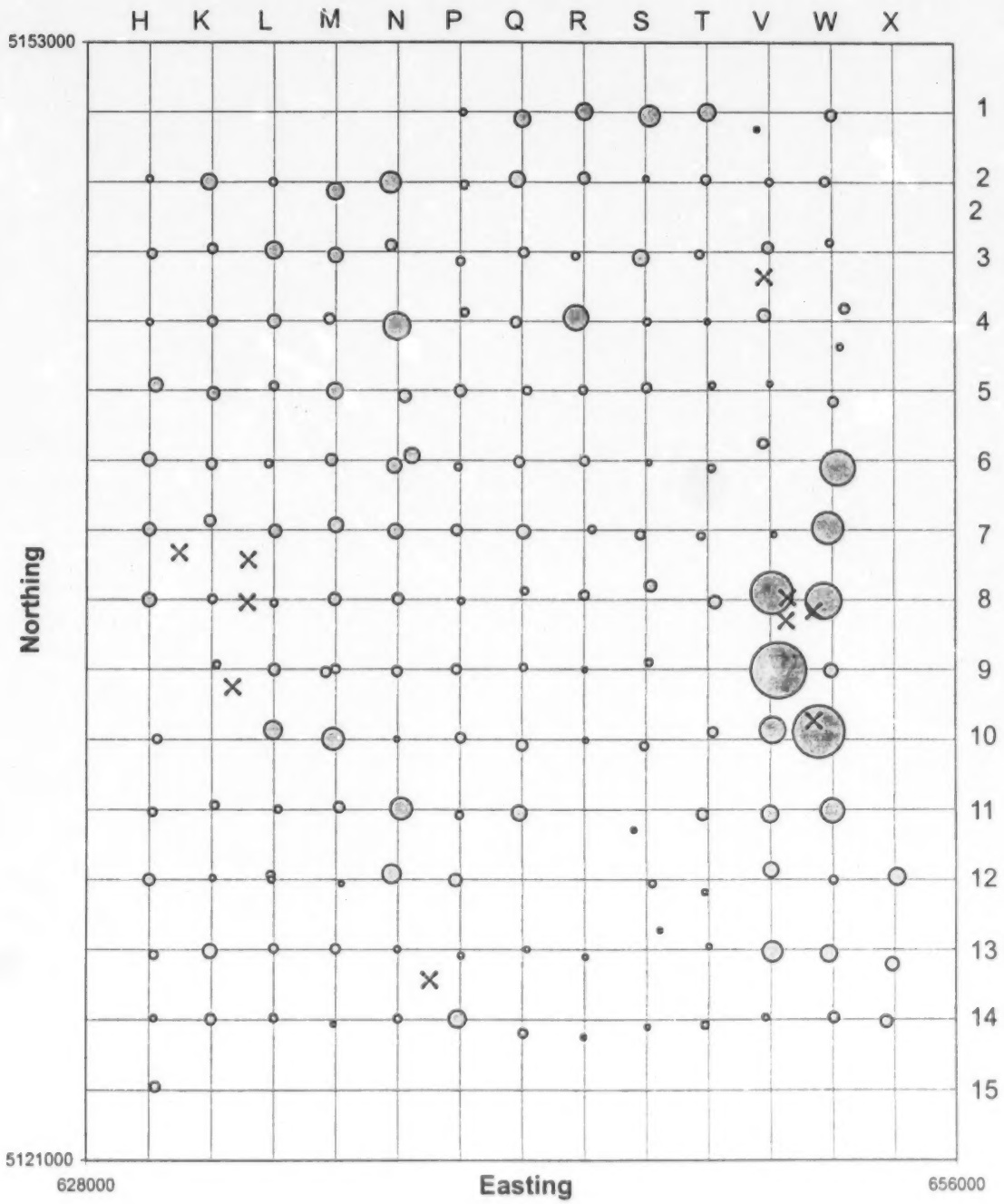
Bi (ppm) J/06C&E



(minimum, <0.3 ppm); maximum, 9.0 ppm)

× mineral occurrence

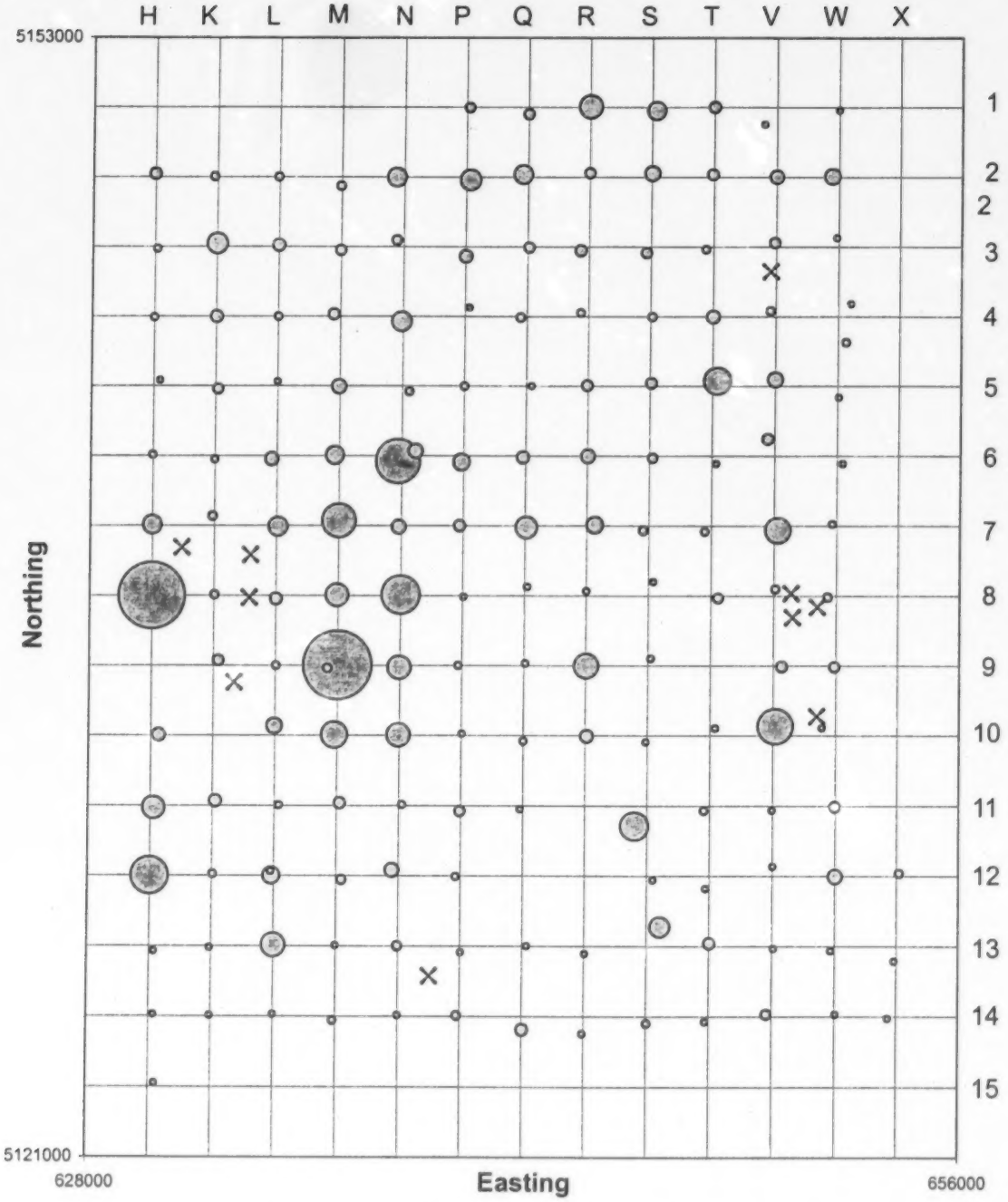
Cu (ppm) J/06C&E



(minimum, <12 ppm; maximum, 117 ppm)

× mineral occurrence

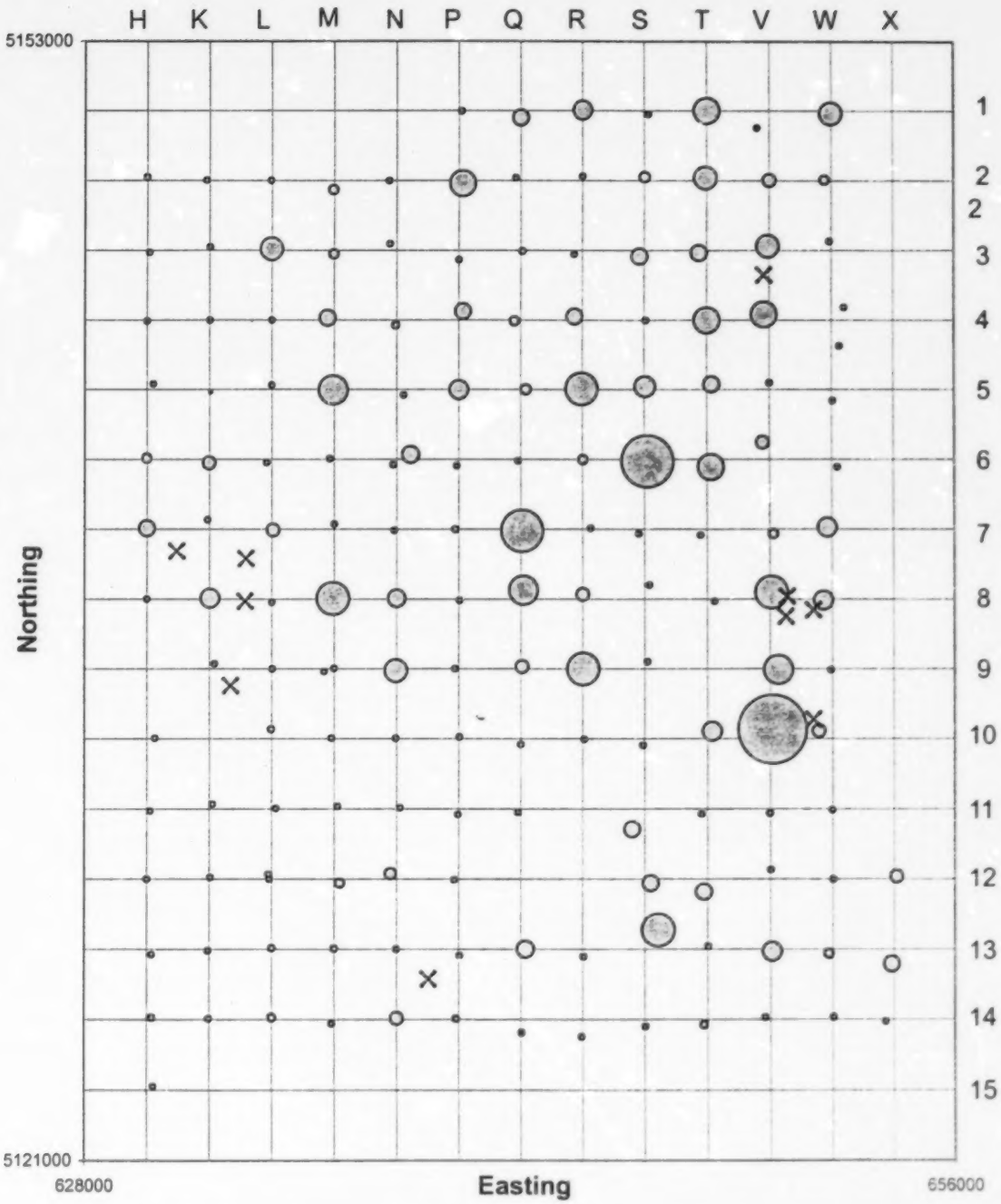
Hg (ppb) J/06C&E



(minimum, <19 ppb; maximum, 204 ppb)

× mineral occurrence

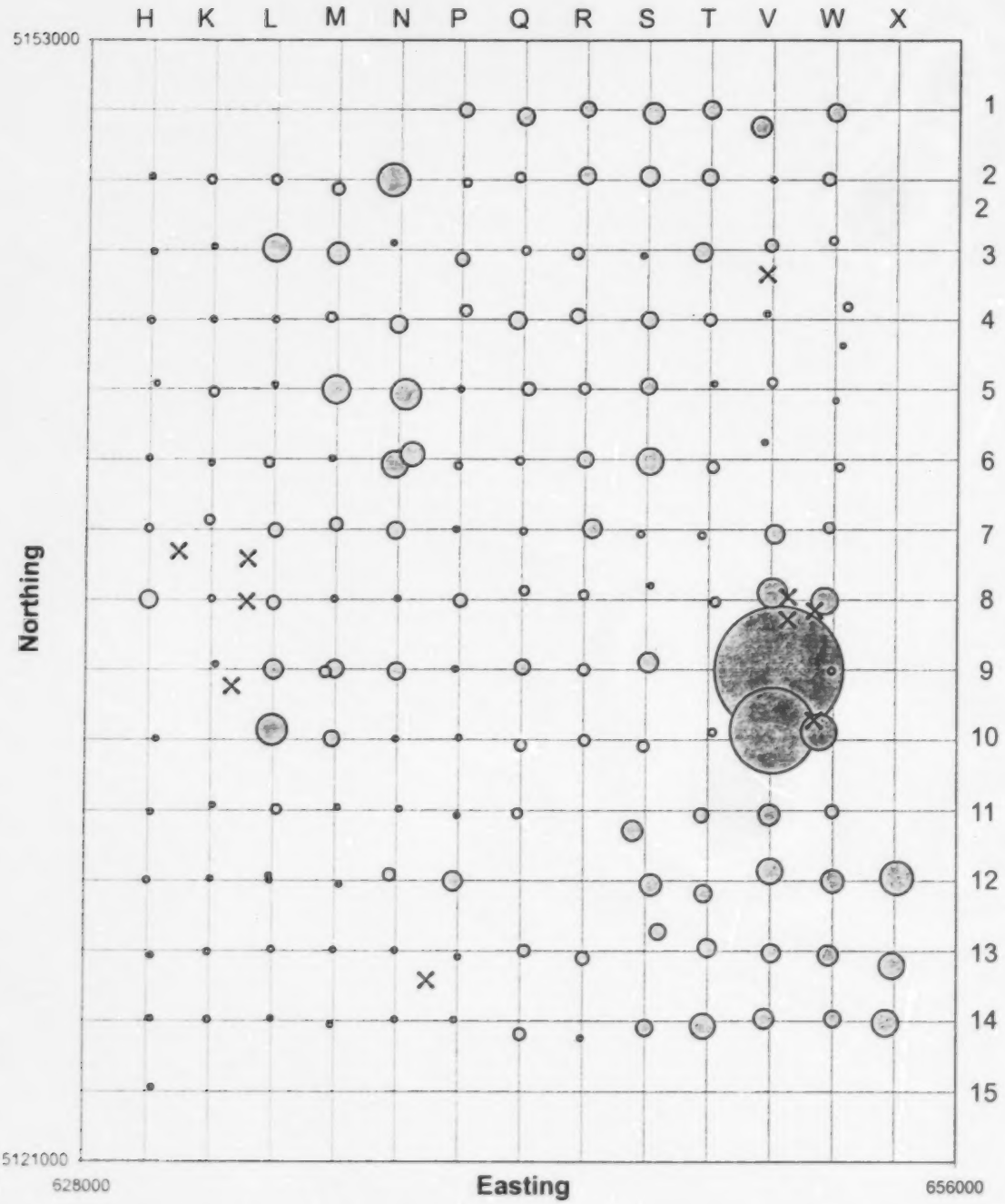
Mo (ppm, by INAA) J/06C&E



(minimum, <2 ppm; maximum, 21 ppm)

× mineral occurrence

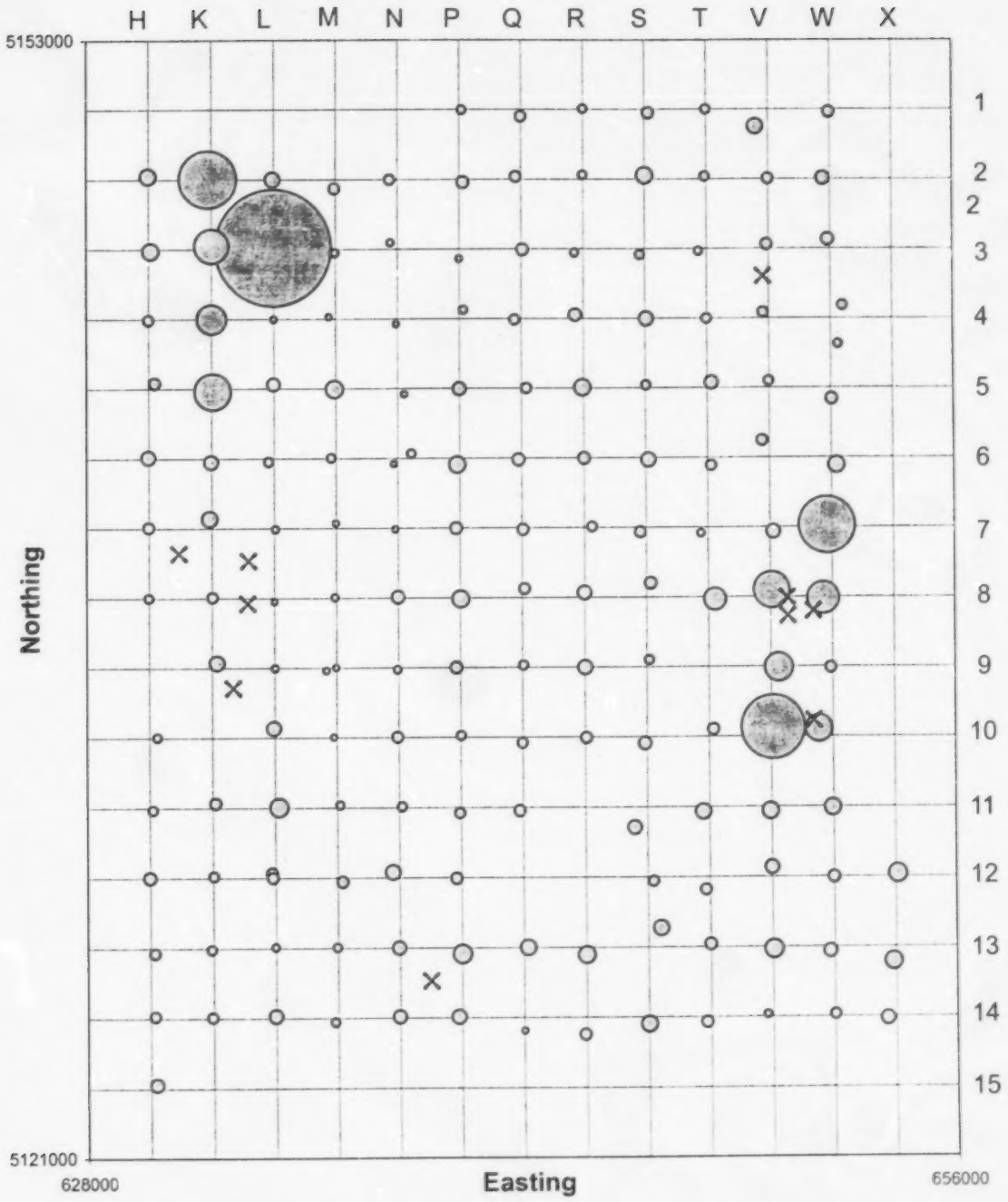
Mo (ppm, by ICP) J/06C&E



(minimum, <1 ppm); maximum, 19 ppm)

× mineral occurrence

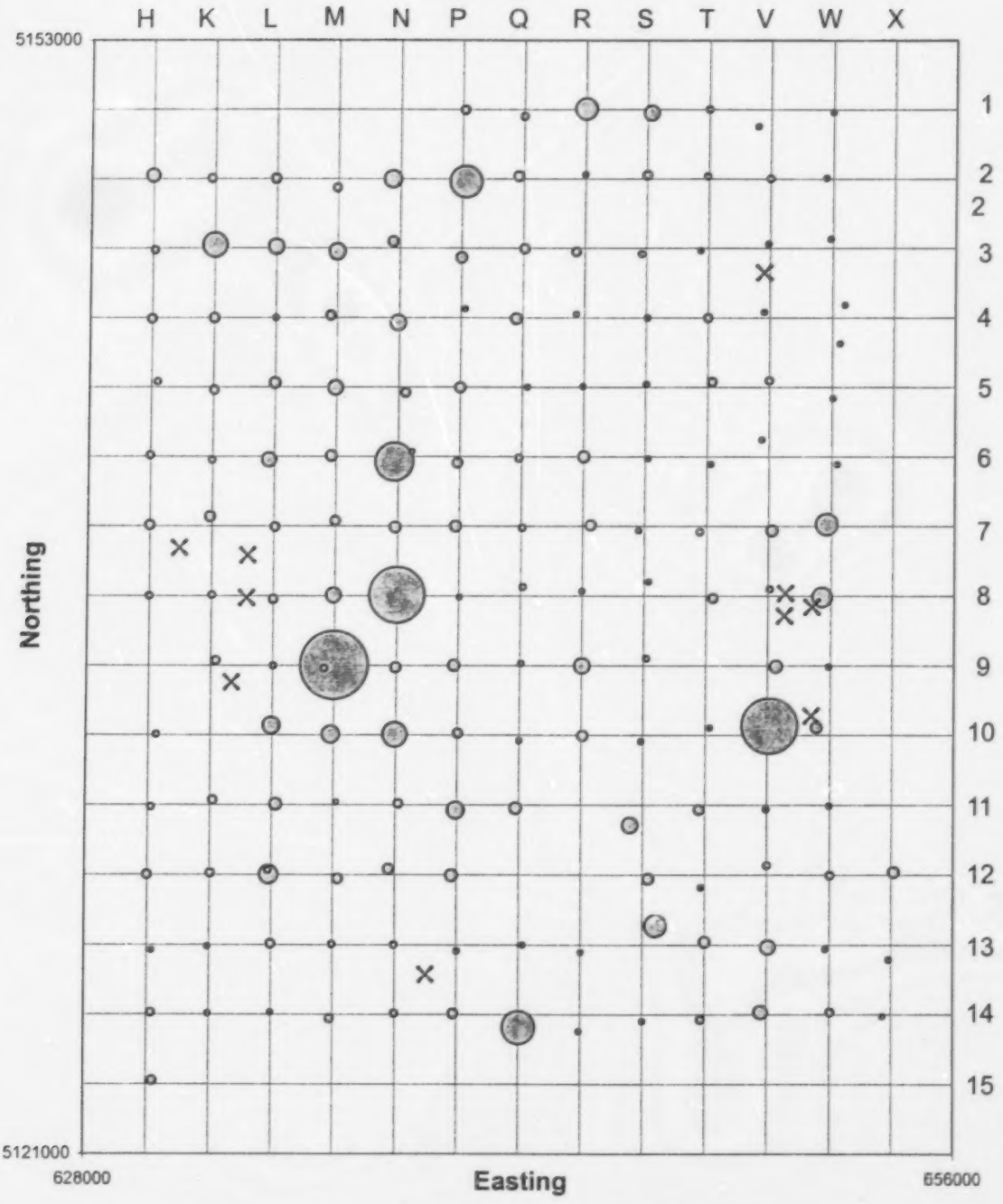
Pb (ppm) J/06C&E



(minimum, <14 ppm; maximum, 255 ppm)

× mineral occurrence

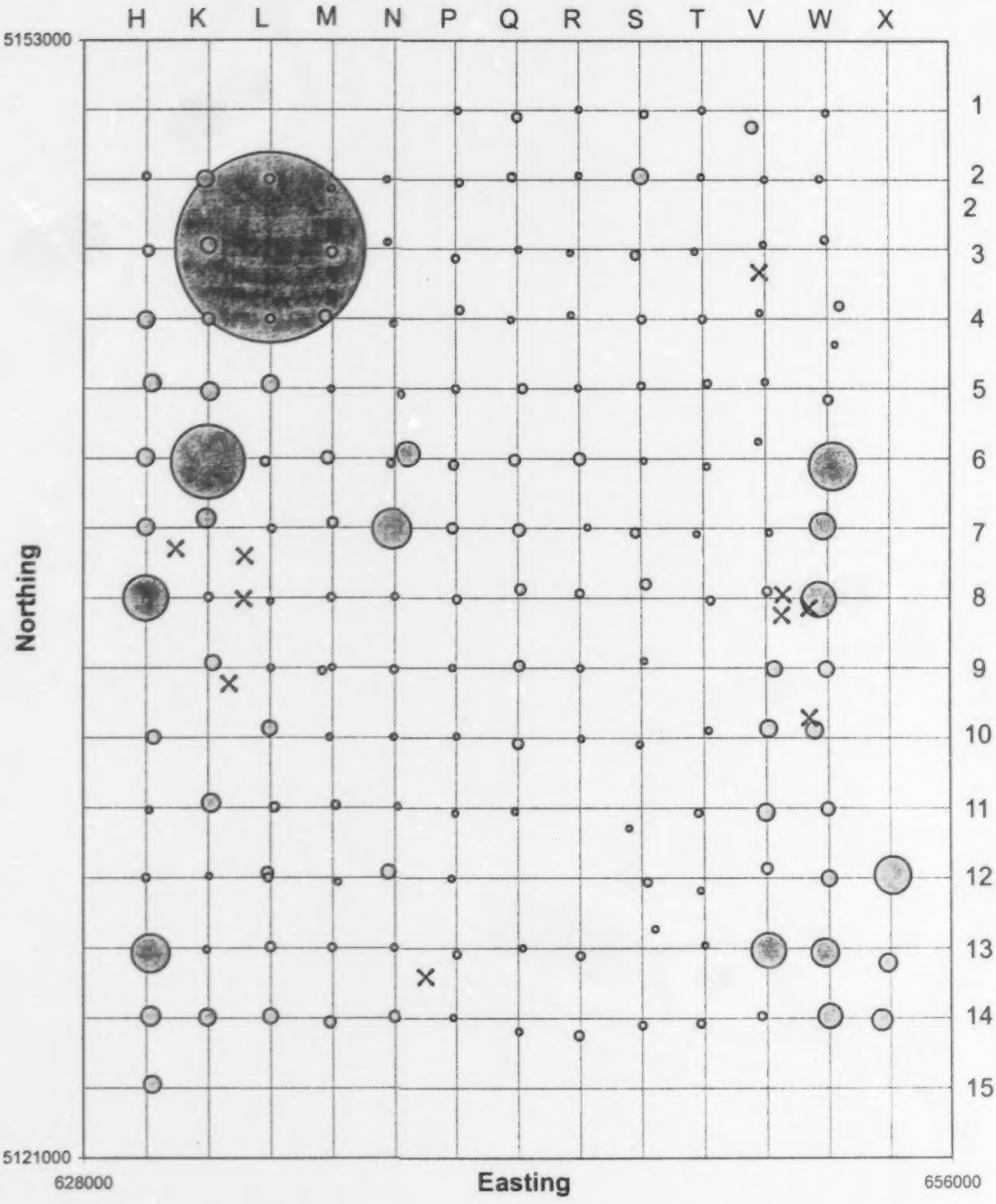
S (%) J/06C&E



(minimum, <0.006%; maximum, 0.082%)

× mineral occurrence

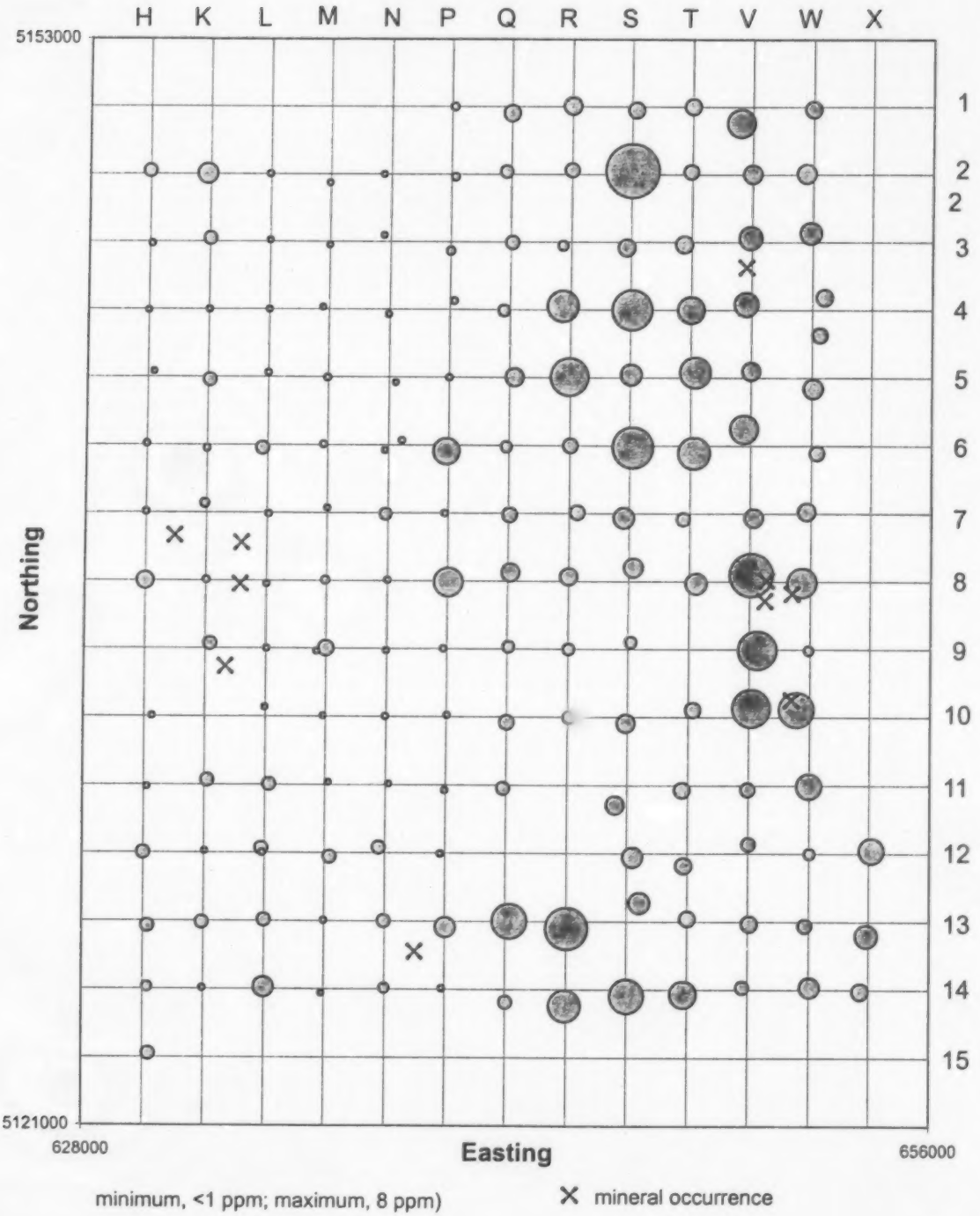
Sb (ppm) J/06C&E



(minimum, <0.8 ppm; maximum, 23.8 ppm)

× mineral occurrence

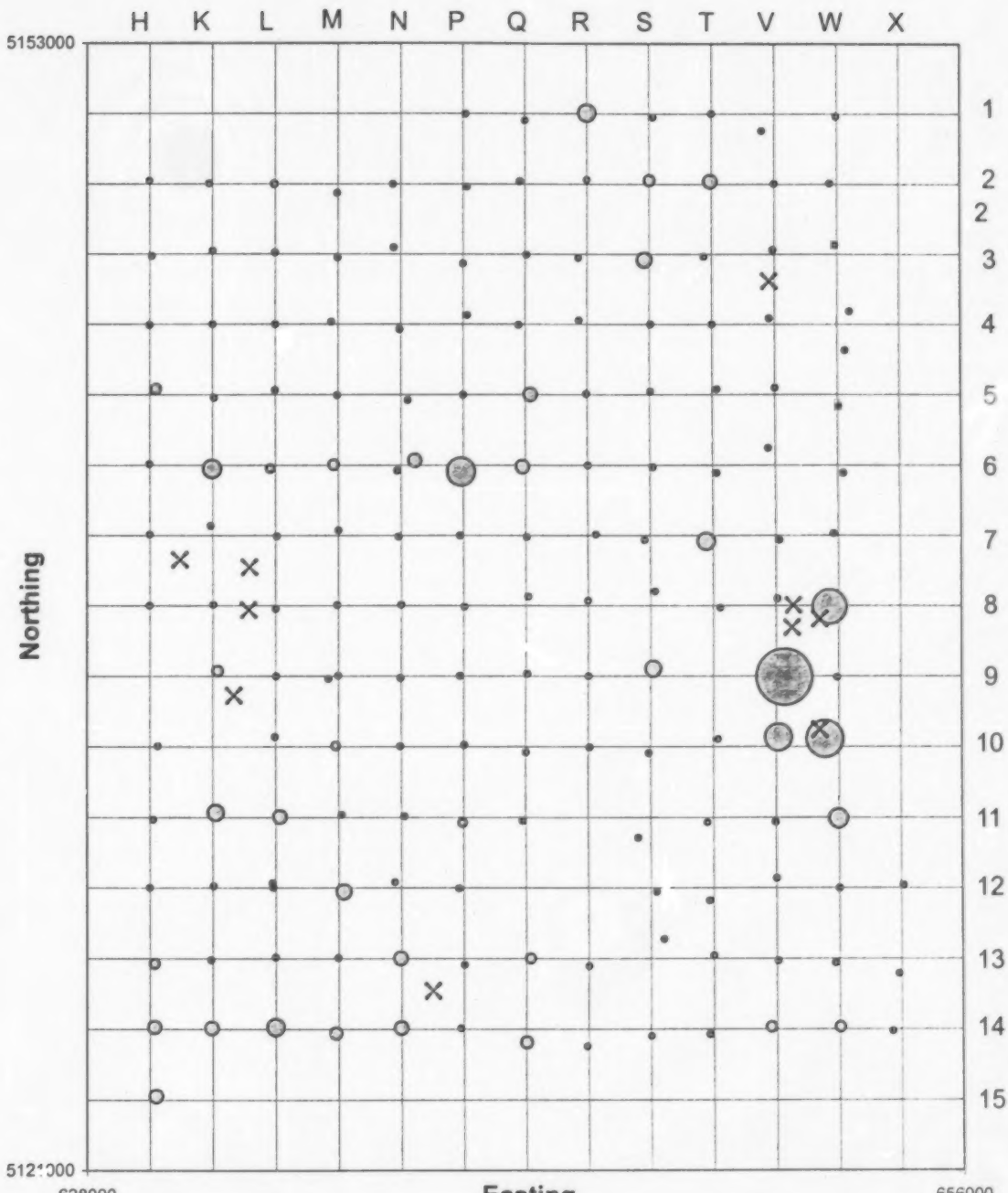
Sn (ppm) J/06C&E



minimum, <1 ppm; maximum, 8 ppm)

× mineral occurrence

W (ppm) J/06C&E


H
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V
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5153000
1
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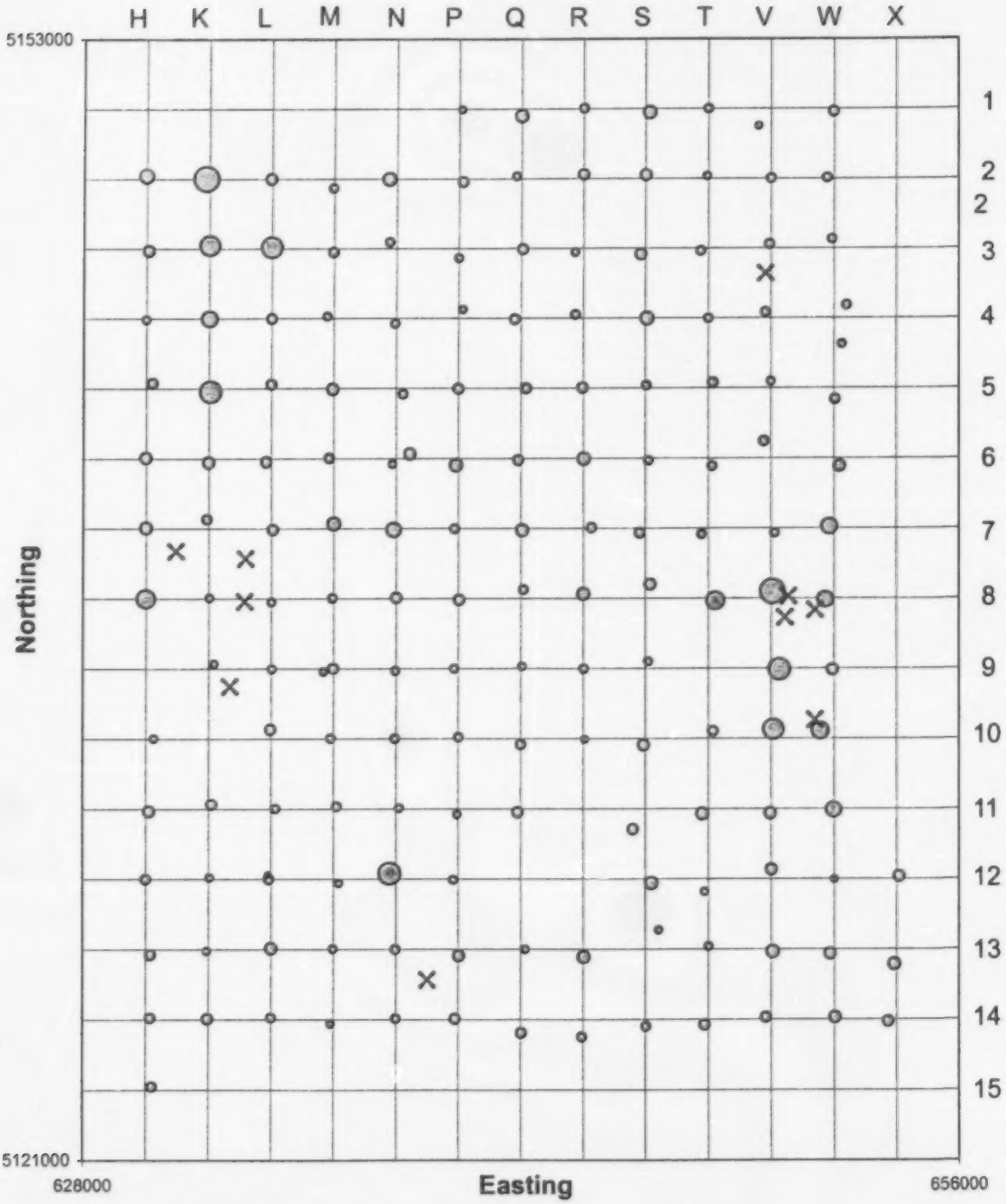
3
4
5
6
7
8
9
10
11
12
13
14
15
Northing
628000
Easting
656000
(minimum, <1 ppm; maximum, 81 ppm)
mineral occurrence

Zn (ppm, by ICP) J/06C&E



(minimum, <38 ppm; maximum, 180 ppm)

× mineral occurrence